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 KHARE, Reena; RICHARDSON, Thomas W.;
 MARQUIS, Joseph P.; SWARNAKAR, Anita;
 HAFALIAL, April J.A.; BECHA, Shanya D.;
 CHAWLA, Narinder K.; BAUGHN, Mariah R.;
 LEE, Soo Yeun; TRAN, Uyen K.;
 YUE, Henry; NGUYEN, Danniel B.;
 THORNTON, Michael B.; GURURAJAN, Rajagopal;
 GANDHI, Ameena R.; LU, Yan;
 YAO, Monique G.; LI, Joana X.;
 LUO, Wen; LEE, Ernestine A.;
 FORSYTHE, Ian J.; ISON, Craig H.;
 WILSON, Amy D.; JIN, Pei

<120> KINASES AND PHOSPHATASES

<130> PF-1506 PCT

<140> To Be Assigned
 <141> Herewith

<150> US 60/467,491
 <151> 2003-04-30

<150> US 60/469,441
 <151> 2003-05-09

<150> US 60/476,408
 <151> 2003-06-05

<150> US 60/494,656
 <151> 2003-08-12

<150> US 60/524,415
 <151> 2003-11-20

<150> US 60/528,750
 <151> 2003-12-10

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 1 5 10 15
 Asn Ile Asp Val Cys Glu Asn Cys His Tyr Pro Ile Val Pro Leu
 20 25 30
 Asp Gly Lys Gly Thr Leu Leu Ile Arg Asn Gly Ser Glu Thr Thr
 35 40 45
 Trp Leu Ser Leu Cys Thr Ala Met Ser Pro Leu Thr Thr Glu Ile
 50 55 60
 Trp Ala Leu Arg Arg Gly Asn Ser Ser Ala Ser Trp Ser Arg Ala
 65 70 75
 Ala Ser Gly Gly Arg Arg Ser Pro
 80

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<220>
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 Met Ala Asp Gln Ala Pro Phe Asp Thr Asp Val Asn Thr Leu Thr
 1 5 10 15
 Arg Phe Val Met Glu Glu Gly Arg Lys Ala Arg Gly Thr Gly Glu
 20 25 30
 Leu Thr Gln Leu Leu Asn Ser Leu Cys Thr Ala Val Lys Ala Ile
 35 40 45
 Ser Ser Ala Val Arg Lys Ala Gly Ile Ala His Leu Tyr Gly Ile
 50 55 60
 Ala Gly Ser Thr Asn Val Thr Gly Asp Gln Val Lys Lys Leu Asp
 65 70 75
 Val Leu Ser Asn Asp Leu Val Met Asn Met Leu Lys Ser Ser Phe
 80 85 90
 Ala Thr Cys Val Leu Val Ser Glu Glu Asp Lys His Ala Ile Ile
 95 100 105
 Val Glu Pro Glu Lys Arg Gly Lys Tyr Val Val Cys Phe Asp Pro
 110 115 120
 Leu Asp Gly Ser Ser Asn Ile Asp Cys Leu Val Ser Val Gly Thr
 125 130 135
 Ile Phe Gly Ile Tyr Arg Lys Lys Ser Thr Asp Glu Pro Ser Glu
 140 145 150
 Lys Asp Ala Leu Gln Pro Gly Arg Asn Leu Val Ala Ala Gly Tyr
 155 160 165
 Ala Leu Tyr Gly Ser Ala Thr Met Leu Val Leu Ala Met Asp Cys
 170 175 180
 Gly Val Asn Cys Phe Met Leu Asp Pro Asp Asn Ser Ala Pro Tyr
 185 190 195
 Gly Ala Arg Tyr Val Gly Ser Met Val Ala Asp Val His Arg Thr
 200 205 210
 Leu Val Tyr Gly Gly Ile Phe Leu Tyr Pro Ala Asn Lys Lys Ser
 215 220 225
 Pro Asn Gly Lys Leu Arg Leu Leu Tyr Glu Cys Asn Pro Met Ala
 230 235 240
 Tyr Val Met Glu Lys Ala Gly Gly Met Ala Thr Thr Gly Lys Glu
 245 250 255
 Ala Val Leu Asp Val Ile Pro Thr Asp Ile His Gln Arg Ala Pro
 260 265 270
 Val Ile Leu Gly Ser Pro Asp Asp Val Leu Glu Phe Leu Lys Val
 275 280 285
 Tyr Glu Lys His Ser Ala Gln
 290

<210> 3
 <211> 434
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 <213> Homo sapiens

<220>
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<400> 3
 Met Ala Ser Pro Arg Glu Leu Thr Gln Asn Pro Leu Lys Lys Ile
 1 5 10 15
 Trp Met Pro Tyr Ser Asn Gly Arg Pro Ala Leu His Ala Cys Gln

Arg Gly Val Cys Met Thr Asn Cys Pro Thr Leu Ile Val Met Val	20	25	30
Gly Leu Pro Ala Arg Gly Lys Thr Tyr Ile Ser Lys Lys Leu Thr	35	40	45
Arg Tyr Leu Asn Trp Ile Gly Val Pro Thr Arg Glu Phe Asn Val	50	55	60
Gly Gln Tyr Arg Arg Asp Val Val Lys Thr Tyr Lys Ser Phe Glu	65	70	75
Phe Phe Leu Pro Asp Asn Glu Glu Gly Leu Lys Ile Arg Lys Gln	80	85	90
Cys Ala Leu Ala Ala Leu Arg Asp Val Arg Arg Phe Leu Ser Glu	95	100	105
Glu Gly Gly His Val Ala Val Phe Asp Ala Thr Asn Thr Thr Arg	110	115	120
Glu Arg Arg Ala Thr Ile Phe Asn Phe Gly Glu Gln Asn Gly Tyr	125	130	135
Lys Thr Phe Phe Val Glu Ser Ile Cys Val Asp Pro Glu Val Ile	140	145	150
Ala Ala Asn Ile Val Gln Val Lys Leu Gly Ser Pro Asp Tyr Val	155	160	165
Asn Arg Asp Ser Asp Glu Ala Thr Glu Asp Phe Met Arg Arg Ile	170	175	180
Glu Cys Tyr Glu Asn Ser Tyr Glu Ser Leu Asp Glu Asp Leu Asp	185	190	195
Arg Asp Leu Ser Tyr Ile Lys Ile Met Asp Val Gly Gln Ser Tyr	200	205	210
Val Val Asn Arg Val Ala Asp His Ile Gln Ser Arg Ile Val Tyr	215	220	225
Tyr Leu Met Asn Ile His Val Thr Pro Arg Ser Ile Tyr Leu Cys	230	235	240
Arg His Gly Glu Ser Glu Leu Asn Leu Lys Gly Arg Ile Gly Gly	245	250	255
Asp Pro Gly Leu Ser Pro Arg Gly Arg Glu Phe Ala Lys Ser Leu	260	265	270
Ala Gln Phe Ile Ser Asp Gln Asn Ile Lys Asp Leu Lys Val Trp	275	280	285
Thr Ser Gln Met Lys Arg Thr Ile Gln Thr Ala Glu Ala Leu Gly	290	295	300
Val Pro Tyr Glu Gln Trp Lys Val Leu Asn Glu Ile Asp Ala Ser	305	310	315
Tyr Glu Asp Leu Val Gln Arg Leu Glu Pro Val Ile Met Glu Leu	320	325	330
Glu Arg Gln Glu Asn Val Leu Val Ile Cys His Gln Ala Val Met	335	340	345
Arg Cys Leu Leu Ala Tyr Phe Leu Asp Lys Ala Ala Glu Gln Leu	350	355	360
Pro Tyr Leu Lys Cys Pro Leu His Thr Val Leu Lys Leu Thr Pro	365	370	375
Val Ala Tyr Gly Cys Lys Val Glu Ser Ile Phe Leu Asn Val Ala	380	385	390
Ala Val Asn Thr His Arg Asp Arg Pro Gln Asn Val Asp Ile Ser	395	400	405
Arg Pro Pro Glu Glu Ala Leu Val Thr Val Pro Ala His Gln	410	415	420
	425	430	

<210> 4

<211> 240

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<220>

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<223> Incyte ID No: 7523965CD1

<400> 4

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Met Ala Ala Leu Tyr Arg Pro Gly Leu Arg Leu Asn Trp His Gly
 1          5          10          15
Leu Ser Pro Leu Gly Trp Pro Ser Cys Arg Ser Ile Gln Thr Leu
          20          25          30
Arg Val Leu Ser Gly Asp Leu Gly Gln Leu Pro Thr Gly Ile Arg
          35          40          45
Asp Phe Val Glu His Ser Ala Arg Leu Cys Gln Pro Glu Gly Ile
          50          55          60
His Ile Cys Asp Gly Thr Glu Ala Glu Asn Thr Ala Thr Leu Thr
          65          70          75
Leu Leu Glu Gln Gln Gly Leu Ile Arg Lys Leu Pro Lys Tyr Asn
          80          85          90
Asn Cys Trp Leu Ala Arg Thr Asp Pro Lys Asp Val Ala Arg Val
          95          100          105
Glu Ser Lys Thr Val Ile Val Thr Pro Ser Gln Arg Asp Thr Val
          110          115          120
Pro Leu Pro Pro Gly Gly Ala Arg Gly Gln Leu Gly Asn Trp Met
          125          130          135
Ser Pro Ala Asp Phe Gln Arg Ala Val Asp Glu Arg Phe Pro Gly
          140          145          150
Cys Met Gln Gly Arg Thr Met Tyr Val Leu Pro Phe Ser Met Gly
          155          160          165
Pro Val Gly Ser Pro Leu Ser Arg Ile Gly Val Gln Leu Thr Asp
          170          175          180
Ser Ala Tyr Val Val Ala Ser Met Arg Ile Met Thr Arg Leu Gly
          185          190          195
Thr Pro Val Leu Gln Ala Leu Gly Asp Gly Asp Phe Val Lys Cys
          200          205          210
Leu His Ser Val Gly Gln Pro Leu Thr Gly Gln Asp Pro Gly His
          215          220          225
His Gln Pro Cys Arg Glu Glu Ala Leu Cys Gly Ser Arg Leu Pro
          230          235          240

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<210> 5

<211> 199

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7524016CD1

<400> 5

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Met Glu Glu Lys Thr Ser Arg Ile Lys Ala Ser Ile Pro Gln Phe
 1          5          10          15
Thr Asn Ser Pro Thr Met Val Ile Met Val Gly Leu Pro Ala Arg
          20          25          30
Gly Lys Thr Tyr Ile Ser Thr Lys Leu Thr Arg Tyr Leu Asn Trp
          35          40          45
Ile Gly Thr Pro Thr Lys Val Phe Asn Leu Gly Gln Tyr Arg Arg
          50          55          60
Glu Ala Val Ser Tyr Lys Asn Tyr Glu Phe Phe Leu Pro Asp Asn
          65          70          75
Met Glu Ala Leu Gln Ile Arg Lys Gln Cys Ala Leu Ala Ala Leu
          80          85          90
Lys Asp Val His Asn Tyr Leu Ser His Glu Glu Gly His Val Ala
          95          100          105
Val Phe Asp Ala Thr Asn Thr Thr Arg Glu Arg Arg Ser Leu Ile
          110          115          120
Leu Gln Phe Ala Lys Glu His Gly Tyr Lys Val Phe Phe Ile Glu
          125          130          135
Ser Ile Cys Asn Asp Pro Gly Ile Ile Ala Glu Asn Ile Arg Gln

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	140		145		150
Val Lys Leu Gly	Ser Pro Asp Tyr Ile	Asp Cys Asp Arg Glu	Lys		
	155		160		165
Val Leu Glu Asp	Phe Leu Lys Arg Ile	Glu Cys Tyr Glu Val	Asn		
	170		175		180
Tyr Gln Pro Leu	Asp Glu Glu Leu Asp	Arg Ser Ser Thr Trp	Ala		
	185		190		195
His Ala Thr Trp					

<210> 6

<211> 406

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7524680CD1

<400> 6

Met Glu Glu Lys Thr	Ser Arg Ile Lys Val	Phe Asn Leu Gly Gln
1	5	10
		15
Tyr Arg Arg Glu Ala	Val Ser Tyr Lys Asn	Tyr Glu Phe Phe Leu
	20	25
		30
Pro Asp Asn Met Glu	Ala Leu Gln Ile Arg	Lys Gln Cys Ala Leu
	35	40
		45
Ala Ala Leu Lys Asp	Val His Asn Tyr Leu	Ser His Glu Glu Gly
	50	55
		60
His Val Ala Val Phe	Asp Ala Thr Asn Thr	Thr Arg Glu Arg Arg
	65	70
		75
Ser Leu Ile Leu Gln	Phe Ala Lys Glu His	Gly Tyr Lys Val Phe
	80	85
		90
Phe Ile Glu Ser Ile	Cys Asn Asp Pro Gly	Ile Ile Ala Glu Asn
	95	100
		105
Ile Arg Gln Val Lys	Leu Gly Ser Pro Asp	Tyr Ile Asp Cys Asp
	110	115
		120
Arg Glu Lys Val Leu	Glu Asp Phe Leu Lys	Arg Ile Glu Cys Tyr
	125	130
		135
Glu Val Asn Tyr Gln	Pro Leu Asp Glu Glu	Leu Asp Ser His Leu
	140	145
		150
Ser Tyr Ile Lys Ile	Phe Asp Val Gly Thr	Arg Tyr Met Val Asn
	155	160
		165
Arg Val Gln Asp His	Ile Gln Ser Arg Thr	Val Tyr Tyr Leu Met
	170	175
		180
Asn Ile His Val Thr	Pro Arg Ser Ile Tyr	Leu Cys Arg His Gly
	185	190
		195
Glu Ser Glu Leu Asn	Ile Arg Gly Arg Ile	Gly Gly Asp Ser Gly
	200	205
		210
Leu Ser Val Arg Gly	Lys Gln Tyr Ala Tyr	Ala Leu Ala Asn Phe
	215	220
		225
Ile Gln Ser Gln Gly	Ile Ser Ser Leu Lys	Val Trp Thr Ser His
	230	235
		240
Met Lys Arg Thr Ile	Gln Thr Ala Glu Ala	Leu Gly Val Pro Tyr
	245	250
		255
Glu Gln Trp Lys Ala	Leu Asn Glu Ile Asp	Ala Gly Val Cys Glu
	260	265
		270
Glu Met Thr Tyr Glu	Glu Ile Gln Glu His	Tyr Pro Glu Glu Phe
	275	280
		285
Ala Leu Arg Asp Gln	Asp Lys Tyr Arg Tyr	Arg Tyr Pro Lys Gly
	290	295
		300
Glu Ser Tyr Glu Asp	Leu Val Gln Arg Leu	Glu Pro Val Ile Met
	305	310
		315
Glu Leu Glu Arg Gln	Glu Asn Val Leu Val	Ile Cys His Gln Ala
	320	325
		330

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Val Met Arg Cys Leu Leu Ala Tyr Phe Leu Asp Lys Ser Ser Asp
              335              340              345
Glu Leu Pro Tyr Leu Lys Cys Pro Leu His Thr Val Leu Lys Leu
              350              355              360
Thr Pro Val Ala Tyr Gly Cys Lys Val Glu Ser Ile Tyr Leu Asn
              365              370              375
Val Glu Thr Val Asn Thr His Arg Glu Lys Pro Glu Asn Val Asp
              380              385              390
Ile Thr Arg Glu Pro Glu Glu Ala Leu Asp Thr Val Pro Ala His
              395              400              405
Tyr

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<210> 7
<211> 426
<212> PRT
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 7524757CD1

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<400> 7
Met Glu Glu Lys Thr Ser Arg Ile Lys Ala Ser Ile Pro Gln Phe
  1              5              10              15
Thr Asn Ser Pro Thr Met Val Ile Met Val Gly Leu Pro Ala Arg
              20              25              30
Gly Lys Thr Tyr Ile Ser Thr Lys Leu Thr Arg Tyr Leu Asn Trp
              35              40              45
Ile Gly Thr Pro Thr Lys Asp Asn Met Glu Ala Leu Gln Ile Arg
              50              55              60
Lys Gln Cys Ala Leu Ala Ala Leu Lys Asp Val His Asn Tyr Leu
              65              70              75
Ser His Glu Glu Gly His Val Ala Val Phe Asp Ala Thr Asn Thr
              80              85              90
Thr Arg Glu Arg Arg Ser Leu Ile Leu Gln Phe Ala Lys Glu His
              95              100             105
Gly Tyr Lys Val Phe Phe Ile Glu Ser Ile Cys Asn Asp Pro Gly
              110             115             120
Ile Ile Ala Glu Asn Ile Arg Gln Val Lys Leu Gly Ser Pro Asp
              125             130             135
Tyr Ile Asp Cys Asp Arg Glu Lys Val Leu Glu Asp Phe Leu Lys
              140             145             150
Arg Ile Glu Cys Tyr Glu Val Asn Tyr Gln Pro Leu Asp Glu Glu
              155             160             165
Leu Asp Ser His Leu Ser Tyr Ile Lys Ile Phe Asp Val Gly Thr
              170             175             180
Arg Tyr Met Val Asn Arg Val Gln Asp His Ile Gln Ser Arg Thr
              185             190             195
Val Tyr Tyr Leu Met Asn Ile His Val Thr Pro Arg Ser Ile Tyr
              200             205             210
Leu Cys Arg His Gly Glu Ser Glu Leu Asn Ile Arg Gly Arg Ile
              215             220             225
Gly Gly Asp Ser Gly Leu Ser Val Arg Gly Lys Gln Tyr Ala Tyr
              230             235             240
Ala Leu Ala Asn Phe Ile Gln Ser Gln Gly Ile Ser Ser Leu Lys
              245             250             255
Val Trp Thr Ser His Met Lys Arg Thr Ile Gln Thr Ala Glu Ala
              260             265             270
Leu Gly Val Pro Tyr Glu Gln Trp Lys Ala Leu Asn Glu Ile Asp
              275             280             285
Ala Gly Val Cys Glu Glu Met Thr Tyr Glu Glu Ile Arg Glu His
              290             295             300
Tyr Pro Glu Glu Phe Ala Leu Arg Asp Gln Asp Lys Tyr Arg Tyr

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Arg Tyr Pro Lys	305	310	315
Gly Glu Ser Tyr Glu Asp Leu Val Gln Arg Leu			
Glu Pro Val Ile Met Glu Leu Glu Arg Gln Glu Asn Val Leu Val	320	325	330
Ile Cys His Gln Ala Val Met Arg Cys Leu Leu Ala Tyr Phe Leu	335	340	345
Asp Lys Ser Ser Asp Glu Leu Pro Tyr Leu Lys Cys Pro Leu His	350	355	360
Thr Val Leu Lys Leu Thr Pro Val Ala Tyr Gly Cys Lys Val Glu	365	370	375
Ser Ile Tyr Leu Asn Val Glu Ala Val Asn Thr His Arg Glu Lys	380	385	390
Pro Glu Asn Val Asp Ile Thr Arg Glu Pro Glu Glu Ala Leu Asp	395	400	405
Thr Val Pro Ala His Tyr	410	415	420
	425		

<210> 8

<211> 355

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7516229CD1

<400> 8

Met Ala Thr Pro Gly Asn Leu Gly Ser Ser Val Leu Ala Ser Lys			
1 5 10 15			
Thr Lys Thr Lys Lys Lys His Phe Val Ala Gln Lys Val Lys Leu			
20 25 30			
Phe Arg Ala Ser Asp Pro Leu Leu Ser Val Leu Met Trp Gly Val			
35 40 45			
Asn His Ser Ile Asn Glu Leu Ser His Val Gln Ile Pro Val Met			
50 55 60			
Leu Met Pro Asp Asp Phe Lys Ala Tyr Ser Lys Ile Lys Val Asp			
65 70 75			
Asn His Leu Phe Asn Lys Glu Asn Met Pro Ser His Phe Lys Phe			
80 85 90			
Lys Glu Tyr Cys Pro Met Val Phe Arg Asn Leu Arg Glu Arg Phe			
95 100 105			
Gly Ile Asp Asp Gln Asp Phe Gln Tyr Ile Val Glu Cys His Gly			
110 115 120			
Ile Thr Leu Leu Pro Gln Phe Leu Gly Met Tyr Arg Leu Asn Val			
125 130 135			
Asp Gly Val Glu Ile Tyr Val Ile Val Thr Arg Asn Val Phe Ser			
140 145 150			
His Arg Leu Ser Val Tyr Arg Lys Tyr Asp Leu Lys Gly Ser Thr			
155 160 165			
Val Ala Arg Glu Ala Ser Asp Lys Glu Lys Ala Lys Glu Leu Pro			
170 175 180			
Thr Leu Lys Asp Asn Asp Phe Ile Asn Glu Gly Gln Lys Ile Tyr			
185 190 195			
Ile Asp Asp Asn Asn Lys Lys Val Phe Leu Glu Lys Leu Lys Lys			
200 205 210			
Asp Val Glu Phe Leu Ala Gln Leu Lys Leu Met Asp Tyr Ser Leu			
215 220 225			
Leu Val Gly Ile His Asp Val Glu Arg Ala Glu Gln Glu Glu Val			
230 235 240			
Glu Cys Glu Glu Asn Asp Gly Glu Glu Gly Glu Ser Asp Gly			
245 250 255			
Thr His Pro Val Gly Thr Pro Pro Asp Ser Pro Gly Asn Thr Leu			
260 265 270			

Asn	Ser	Ser	Pro	Pro	Leu	Ala	Pro	Gly	Glu	Phe	Asp	Pro	Asn	Ile
				275					280					285
Asp	Val	Tyr	Gly	Ile	Lys	Cys	His	Glu	Asn	Ser	Pro	Arg	Lys	Glu
				290					295					300
Val	Tyr	Phe	Met	Ala	Ile	Ile	Asp	Ile	Leu	Thr	His	Tyr	Asp	Ala
				305					310					315
Lys	Lys	Lys	Ala	Ala	His	Ala	Ala	Lys	Thr	Val	Lys	His	Gly	Ala
				320					325					330
Gly	Ala	Glu	Ile	Ser	Thr	Val	Asn	Pro	Glu	Gln	Tyr	Ser	Lys	Arg
				335					340					345
Phe	Leu	Asp	Phe	Ile	Gly	His	Ile	Leu	Thr					
				350					355					

<210> 9
 <211> 543
 <212> PRT
 <213> Homo sapiens

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 <223> Incyte ID No: 7516525CD1

<400> 9

Met	Glu	Gly	Gly	Pro	Ala	Val	Cys	Cys	Gln	Asp	Pro	Arg	Ala	Glu
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Leu	Val	Glu	Arg	Val	Ala	Ala	Ile	Asp	Val	Thr	His	Leu	Glu	Glu
				20					25					30
Ala	Asp	Gly	Gly	Pro	Glu	Pro	Thr	Arg	Asn	Gly	Val	Asp	Pro	Pro
				35					40					45
Pro	Arg	Ala	Arg	Ala	Ala	Ser	Val	Ile	Pro	Gly	Ser	Thr	Ser	Arg
				50					55					60
Leu	Leu	Pro	Ala	Arg	Pro	Ser	Leu	Ser	Ala	Arg	Lys	Leu	Ser	Leu
				65					70					75
Gln	Glu	Arg	Pro	Ala	Gly	Ser	Tyr	Leu	Glu	Ala	Gln	Ala	Gly	Pro
				80					85					90
Tyr	Ala	Thr	Gly	Pro	Ala	Ser	His	Ile	Ser	Pro	Arg	Ala	Trp	Arg
				95					100					105
Arg	Pro	Thr	Ile	Glu	Ser	His	His	Val	Ala	Ile	Ser	Asp	Ala	Glu
				110					115					120
Asp	Cys	Val	Gln	Leu	Asn	Gln	Tyr	Lys	Leu	Gln	Ser	Glu	Ile	Gly
				125					130					135
Lys	Gly	Ala	Tyr	Gly	Val	Val	Arg	Pro	Ala	Tyr	Asn	Glu	Ser	Glu
				140					145					150
Asp	Arg	His	Tyr	Ala	Met	Lys	Val	Leu	Ser	Lys	Lys	Lys	Leu	Leu
				155					160					165
Lys	Gln	Tyr	Gly	Phe	Pro	Arg	Arg	Pro	Pro	Pro	Arg	Gly	Ser	Gln
				170					175					180
Ala	Ala	Gln	Gly	Gly	Pro	Ala	Lys	Gln	Leu	Leu	Pro	Leu	Glu	Arg
				185					190					195
Val	Tyr	Gln	Glu	Ile	Ala	Ile	Leu	Lys	Lys	Leu	Asp	His	Val	Asn
				200					205					210
Val	Val	Lys	Leu	Ile	Glu	Val	Leu	Asp	Asp	Pro	Ala	Glu	Asp	Asn
				215					220					225
Leu	Tyr	Leu	Ala	Leu	Gln	Asn	Gln	Ala	Gln	Asn	Ile	Gln	Leu	Asp
				230					235					240
Ser	Thr	Asn	Ile	Ala	Lys	Pro	His	Ser	Leu	Leu	Pro	Ser	Glu	Gln
				245					250					255
Gln	Asp	Ser	Gly	Ser	Thr	Trp	Ala	Ala	Arg	Ser	Val	Phe	Asp	Leu
				260					265					270
Leu	Arg	Lys	Gly	Pro	Val	Met	Glu	Val	Pro	Cys	Asp	Lys	Pro	Phe
				275					280					285
Ser	Glu	Glu	Gln	Ala	Arg	Leu	Tyr	Leu	Arg	Asp	Val	Ile	Leu	Gly
				290					295					300
Leu	Glu	Tyr	Leu	His	Cys	Gln	Lys	Ile	Val	His	Arg	Asp	Ile	Lys

Pro Ser Asn Leu	305	Leu Leu Gly Asp Asp	310	Gly His Val Lys Ile	315
Asp Phe Gly Val	320	Ser Asn Gln Phe Glu	325	Gly Asn Asp Ala Gln	330
Ser Ser Thr Ala	335	Gly Thr Pro Ala Phe	340	Met Ala Pro Glu Ala	345
Ser Asp Ser Gly	350	Gln Ser Phe Ser Gly	355	Lys Ala Leu Asp Val	360
Ala Thr Gly Val	365	Thr Leu Tyr Cys Phe	370	Val Tyr Gly Lys Cys	375
Phe Ile Asp Asp	380	Phe Ile Leu Ala Leu	385	His Arg Lys Ile Lys	390
Glu Pro Val Val	395	Phe Pro Glu Gly Pro	400	Glu Ile Ser Glu Glu	405
Lys Asp Leu Ile	410	Leu Lys Met Leu Asp	415	Lys Asn Pro Glu Thr	420
Ile Gly Val Pro	425	Asp Ile Lys Leu His	430	Pro Trp Val Thr Lys	435
Gly Glu Glu Pro	440	Ile Pro Ser Glu Glu	445	Glu His Cys Ser Val	450
Glu Val Thr Glu	455	Glu Glu Val Lys Asn	460	Ser Val Arg Leu Ile	465
Ser Trp Thr Thr	470	Val Ile Leu Val Lys	475	Ser Met Leu Arg Lys	480
Ser Phe Gly Asn	485	Pro Phe Glu Pro Gln	490	Ala Arg Arg Glu Glu	495
Ser Met Ser Ala	500	Pro Gly Asn Leu Leu	505	Val Lys Glu Gly Phe	510
Glu Gly Gly Lys	515	Ser Pro Glu Leu Pro	520	Gly Val Gln Glu Asp	525
Ala Ala Ser	530		535		540

<210> 10

<211> 445

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7516533CD1

<400> 10

Met Arg Arg Arg Arg Arg Arg Asp Gly Phe Tyr Pro Ala Pro Asp	1	5	10	15
Phe Arg Asp Arg Glu Ala Glu Asp Met Ala Gly Val Phe Asp Ile	20	25	30	35
Asp Leu Asp Gln Pro Glu Asp Ala Gly Ser Glu Asp Glu Leu Glu	40	45	50	55
Glu Gly Ala Met Ile Val Arg Asn Ala Lys Asp Thr Ala His Thr	60	65	70	75
Lys Ala Glu Arg Asn Ile Leu Glu Glu Val Lys His Pro Phe Ile	80	85	90	95
Val Asp Leu Ile Tyr Ala Phe Gln Thr Gly Gly Lys Leu Tyr Leu	100	105	110	115
Ile Leu Glu Tyr Leu Ser Gly Gly Glu Leu Phe Met Gln Leu Glu	120	125	130	135
Arg Glu Gly Ile Phe Met Glu Asp Thr Ala Cys Phe Tyr Leu Ala	140	145	150	

His Val Lys Leu Thr Asp Phe Gly Leu Cys Lys Glu Ser Ile His	155	160	165
Asp Gly Thr Val Thr His Thr Phe Cys Gly Thr Ile Glu Tyr Met	170	175	180
Ala Pro Glu Ile Leu Met Arg Ser Gly His Asn Arg Ala Val Asp	185	190	195
Trp Trp Ser Leu Gly Ala Leu Met Tyr Asp Met Leu Thr Gly Ala	200	205	210
Pro Pro Phe Thr Gly Glu Asn Arg Lys Lys Thr Ile Asp Lys Ile	215	220	225
Leu Lys Cys Lys Leu Asn Leu Pro Pro Tyr Leu Thr Gln Glu Ala	230	235	240
Arg Asp Leu Leu Lys Lys Leu Leu Lys Arg Asn Ala Ala Ser Arg	245	250	255
Leu Gly Ala Gly Pro Gly Asp Ala Gly Glu Val Gln Ala His Pro	260	265	270
Phe Phe Arg His Ile Asn Trp Glu Glu Leu Leu Ala Arg Lys Val	275	280	285
Glu Pro Pro Phe Lys Pro Leu Leu Gln Ser Glu Glu Asp Val Ser	290	295	300
Gln Phe Asp Ser Lys Phe Thr Arg Gln Thr Pro Val Asp Ser Pro	305	310	315
Asp Asp Ser Thr Leu Ser Glu Ser Ala Asn Gln Val Phe Leu Gly	320	325	330
Phe Thr Tyr Val Ala Pro Ser Val Leu Glu Ser Val Lys Glu Lys	335	340	345
Phe Ser Phe Glu Pro Lys Ile Arg Ser Pro Arg Arg Phe Ile Gly	350	355	360
Ser Pro Arg Thr Pro Val Ser Pro Val Lys Phe Ser Pro Gly Asp	365	370	375
Phe Trp Gly Arg Gly Ala Ser Ala Ser Ala Ala Asn Pro Gln Thr	380	385	390
Pro Val Glu Tyr Pro Met Glu Thr Ser Gly Ile Glu Gln Met Asp	395	400	405
Val Thr Met Ser Gly Glu Ala Ser Ala Pro Leu Pro Ile Arg Gln	410	415	420
Pro Asn Ser Gly Pro Tyr Lys Lys Gln Ala Phe Pro Met Ile Ser	425	430	435
Lys Arg Pro Glu His Leu Arg Met Asn Leu	440	445	

<210> 11
 <211> 1219
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 7516613CD1

<400> 11

Met Ala Asn Asp Ser Pro Ala Lys Ser Leu Val Asp Ile Asp Leu	1	5	10	15
Ser Ser Leu Arg Asp Pro Ala Gly Ile Phe Glu Leu Val Glu Val	20	25	30	35
Val Gly Asn Gly Thr Tyr Gly Gln Val Tyr Lys Gly Arg His Val	40	45	50	55
Lys Thr Gly Gln Leu Ala Ala Ile Lys Val Met Asp Val Thr Glu	60	65	70	75
Asp Glu Glu Glu Ile Lys Leu Glu Ile Asn Met Leu Lys Lys	80	85	90	95
Tyr Ser His His Arg Asn Ile Ala Thr Tyr Tyr Gly Ala Phe Ile	100	105	110	115
Lys Lys Ser Pro Pro Gly His Asp Asp Gln Leu Trp Leu Val Met	120	125	130	135

	95		100		105
Glu Phe Cys Gly	Ala Gly Ser Ile Thr	Asp Leu Val Lys Asn Thr			
	110		115		120
Lys Gly Asn Thr	Leu Lys Glu Asp Trp	Ile Ala Tyr Ile Ser Arg			
	125		130		135
Glu Ile Leu Arg	Gly Leu Ala His Leu	His Ile His His Val Ile			
	140		145		150
His Arg Asp Ile	Lys Gly Gln Asn Val	Leu Leu Thr Glu Asn Ala			
	155		160		165
Glu Val Lys Leu	Val Asp Phe Gly Val	Ser Ala Gln Leu Asp Gly			
	170		175		180
Thr Val Gly Arg	Arg Asn Thr Phe Ile	Gly Thr Pro Tyr Trp Met			
	185		190		195
Ala Pro Glu Val	Ile Ala Cys Asp Glu	Asn Pro Asp Ala Thr Tyr			
	200		205		210
Asp Tyr Arg Ser	Asp Leu Trp Ser Cys	Gly Ile Thr Ala Ile Glu			
	215		220		225
Met Gly Glu Gly	Ala Pro Pro Leu Cys	Asp Met His Pro Met Arg			
	230		235		240
Ala Leu Phe Leu	Ile Pro Arg Asn Pro	Pro Pro Arg Leu Lys Ser			
	245		250		255
Lys Lys Trp Ser	Lys Lys Phe Phe Ser	Phe Ile Glu Gly Cys Leu			
	260		265		270
Val Lys Asn Tyr	Met Gln Arg Pro Ser	Thr Glu Gln Leu Leu Lys			
	275		280		285
His Pro Phe Ile	Arg Asp Gln Pro Asn	Glu Arg Gln Val Arg Ile			
	290		295		300
Gln Leu Lys Asp	His Ile Asp Arg Thr	Arg Lys Lys Arg Gly Glu			
	305		310		315
Lys Asp Glu Thr	Glu Tyr Glu Tyr Ser	Gly Ser Glu Glu Glu Glu			
	320		325		330
Glu Glu Val Pro	Glu Gln Glu Gly Glu	Pro Ser Ser Ile Val Asn			
	335		340		345
Val Pro Gly Glu	Ser Thr Leu Arg Arg	Asp Phe Leu Arg Leu Gln			
	350		355		360
Gln Glu Asn Lys	Glu Arg Ser Glu Ala	Leu Arg Arg Gln Gln Leu			
	365		370		375
Leu Gln Glu Gln	Gln Leu Arg Glu Gln	Glu Glu Tyr Lys Arg Gln			
	380		385		390
Leu Leu Ala Glu	Arg Gln Lys Arg Ile	Glu Gln Gln Lys Glu Gln			
	395		400		405
Arg Arg Arg Leu	Glu Glu Gln Gln Arg	Arg Glu Arg Glu Ala Arg			
	410		415		420
Arg Gln Gln Glu	Arg Glu Gln Arg Arg	Arg Glu Gln Glu Glu Lys			
	425		430		435
Arg Arg Leu Glu	Glu Leu Glu Arg Arg	Arg Lys Glu Glu Glu Glu			
	440		445		450
Arg Arg Gln Ala	Glu Glu Glu Lys Arg	Arg Val Glu Arg Glu Gln			
	455		460		465
Glu Tyr Ile Arg	Arg Gln Leu Glu Glu	Glu Gln Arg His Leu Glu			
	470		475		480
Val Leu Gln Gln	Gln Leu Leu Gln Glu	Gln Ala Met Leu Leu His			
	485		490		495
Asp His Arg Arg	Pro His Pro Gln His	Ser Gln Gln Pro Pro Pro			
	500		505		510
Pro Gln Gln Glu	Arg Ser Lys Pro Ser	Phe His Ala Pro Glu Pro			
	515		520		525
Lys Ala His Tyr	Glu Pro Ala Asp Arg	Ala Arg Glu Val Pro Val			
	530		535		540
Arg Thr Thr Ser	Arg Ser Pro Val Leu	Ser Arg Arg Asp Ser Pro			
	545		550		555
Leu Gln Gly Ser	Gly Gln Gln Asn Ser	Gln Ala Gly Gln Arg Asn			
	560		565		570
Ser Thr Ser Ser	Ile Glu Pro Arg Leu	Leu Trp Glu Arg Val Glu			

	575		580		585
Lys Leu Met Pro	Arg Pro Gly Ser Gly	Ser Ser Ser Gly Ser	Ser	Ser	Ser
	590		595		600
Asn Ser Gly Ser	Gln Pro Gly Ser His	Pro Gly Ser Gln Ser	Gly	Ser	Gly
	605		610		615
Ser Gly Glu Arg	Phe Arg Val Arg Ser	Ser Ser Lys Ser Glu	Gly	Ser	Gly
	620		625		630
Ser Pro Ser Gln	Arg Leu Glu Asn Ala	Val Lys Lys Pro Glu	Asp	Ser	Asp
	635		640		645
Lys Lys Glu Val	Phe Arg Pro Leu Lys	Pro Ala Asp Leu Thr	Ala	Ser	Ala
	650		655		660
Leu Ala Lys Glu	Leu Arg Ala Val Glu	Asp Val Arg Pro Pro	His	Ser	His
	665		670		675
Lys Val Thr Asp	Tyr Ser Ser Ser Ser	Glu Glu Pro Gly Thr	Thr	Ser	Thr
	680		685		690
Asp Glu Glu Asp	Asp Asp Val Glu Gln	Glu Gly Ala Asp Glu	Ser	Ser	Ser
	695		700		705
Thr Ser Gly Pro	Glu Asp Thr Arg Ala	Ala Ser Ser Leu Asn	Leu	Ser	Leu
	710		715		720
Ser Asn Gly Glu	Thr Glu Ser Val Lys	Thr Met Ile Val His	Asp	Ser	Asp
	725		730		735
Asp Val Glu Ser	Glu Pro Ala Met Thr	Pro Ser Lys Glu Gly	Thr	Ser	Thr
	740		745		750
Leu Ile Val Arg	Gln Ser Thr Val Asp	Gln Lys Arg Ala Ser	His	Ser	His
	755		760		765
His Glu Ser Asn	Gly Phe Ala Gly Arg	Ile His Leu Leu Pro	Asp	Ser	Asp
	770		775		780
Leu Leu Gln Gln	Ser His Ser Ser Ser	Thr Ser Ser Thr Ser	Ser	Ser	Ser
	785		790		795
Ser Pro Ser Ser	Ser Gln Pro Thr Pro	Thr Met Ser Pro Gln	Thr	Ser	Thr
	800		805		810
Pro Gln Asp Lys	Leu Thr Ala Asn Glu	Thr Gln Ser Ala Ser	Ser	Ser	Ser
	815		820		825
Thr Leu Gln Lys	His Lys Ser Ser Ser	Ser Phe Thr Pro Phe	Ile	Ser	Ile
	830		835		840
Asp Pro Arg Leu	Leu Gln Ile Ser Pro	Ser Ser Gly Thr Thr	Val	Ser	Val
	845		850		855
Thr Ser Val Val	Gly Phe Ser Cys Asp	Gly Met Arg Pro Glu	Ala	Ser	Ala
	860		865		870
Ile Arg Gln Asp	Pro Thr Arg Lys Gly	Ser Val Val Asn Val	Asn	Ser	Asn
	875		880		885
Pro Thr Asn Thr	Arg Pro Gln Ser Asp	Thr Pro Glu Ile Arg	Lys	Ser	Lys
	890		895		900
Tyr Lys Lys Arg	Phe Asn Ser Glu Ile	Leu Cys Ala Ala Leu	Trp	Ser	Trp
	905		910		915
Gly Val Asn Leu	Leu Val Gly Thr Glu	Ser Gly Leu Met Leu	Leu	Ser	Leu
	920		925		930
Asp Arg Ser Gly	Gln Gly Lys Val Tyr	Pro Leu Ile Asn Arg	Arg	Ser	Arg
	935		940		945
Arg Phe Gln Gln	Met Asp Val Leu Glu	Gly Leu Asn Val Leu	Val	Ser	Val
	950		955		960
Thr Ile Ser Gly	Lys Lys Asp Lys Leu	Arg Val Tyr Tyr Leu	Ser	Ser	Ser
	965		970		975
Trp Leu Arg Asn	Lys Ile Leu His Asn	Asp Pro Glu Val Glu	Lys	Ser	Lys
	980		985		990
Lys Gln Gly Trp	Thr Thr Val Gly Asp	Leu Glu Gly Cys Val	His	Ser	His
	995		1000		1005
Tyr Lys Val Val	Lys Tyr Glu Arg Ile	Lys Phe Leu Val Ile	Ala	Ser	Ala
	1010		1015		1020
Leu Lys Ser Ser	Val Glu Val Tyr Ala	Trp Ala Pro Lys Pro	Tyr	Ser	Tyr
	1025		1030		1035
His Lys Phe Met	Ala Phe Lys Ser Phe	Gly Glu Leu Val His	Lys	Ser	Lys
	1040		1045		1050
Pro Leu Leu Val	Asp Leu Thr Val Glu	Glu Gly Gln Arg Leu	Lys	Ser	Lys

	1055	1060	1065
Val Ile Tyr Gly Ser Cys Ala Gly Phe His Ala Val Asp Val Asp			
	1070	1075	1080
Ser Gly Ser Val Tyr Asp Ile Tyr Leu Pro Thr His Ile Gln Cys			
	1085	1090	1095
Ser Ile Lys Pro His Ala Ile Ile Ile Leu Pro Asn Thr Asp Gly			
	1100	1105	1110
Met Glu Leu Leu Val Cys Tyr Glu Asp Glu Gly Val Tyr Val Asn			
	1115	1120	1125
Thr Tyr Gly Arg Ile Thr Lys Asp Val Val Leu Gln Trp Gly Glu			
	1130	1135	1140
Met Pro Thr Ser Val Ala Tyr Ile Arg Ser Asn Gln Thr Met Gly			
	1145	1150	1155
Trp Gly Glu Lys Ala Ile Glu Ile Arg Ser Val Glu Thr Gly His			
	1160	1165	1170
Leu Asp Gly Val Phe Met His Lys Arg Ala Gln Arg Leu Lys Phe			
	1175	1180	1185
Leu Cys Glu Arg Asn Asp Lys Val Phe Phe Ala Ser Val Arg Ser			
	1190	1195	1200
Gly Gly Ser Ser Gln Val Tyr Phe Met Thr Leu Gly Arg Thr Ser			
	1205	1210	1215
Leu Leu Ser Trp			

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 <213> Homo sapiens

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 <223> Incyte ID No: 7517068CD1

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Ser Ala Leu Arg Asp Pro Ala Gly Ile Phe Glu Leu Val Glu Leu		
20 25 30		
Val Gly Asn Gly Thr Tyr Gly Gln Val Tyr Lys Gly Arg His Val		
35 40 45		
Lys Thr Gly Gln Leu Ala Ala Ile Lys Val Met Asp Val Thr Gly		
50 55 60		
Asp Glu Glu Glu Glu Ile Lys Gln Glu Ile Asn Met Leu Lys Lys		
65 70 75		
Tyr Ser His His Arg Asn Ile Ala Thr Tyr Tyr Gly Ala Phe Ile		
80 85 90		
Lys Lys Asn Pro Pro Gly Met Asp Asp Gln Leu Trp Leu Val Met		
95 100 105		
Glu Phe Cys Gly Ala Gly Ser Val Thr Asp Leu Ile Lys Asn Thr		
110 115 120		
Lys Gly Asn Thr Leu Lys Glu Glu Trp Ile Ala Tyr Ile Cys Arg		
125 130 135		
Glu Ile Leu Arg Gly Leu Ser His Leu His Gln His Lys Val Ile		
140 145 150		
His Arg Asp Ile Lys Gly Gln Asn Val Leu Leu Thr Glu Asn Ala		
155 160 165		
Glu Val Lys Leu Val Asp Phe Gly Val Ser Ala Gln Leu Asp Arg		
170 175 180		
Thr Val Gly Arg Arg Asn Thr Phe Ile Gly Thr Pro Tyr Trp Met		
185 190 195		
Ala Pro Glu Val Ile Ala Cys Asp Glu Asn Pro Asp Ala Thr Tyr		
200 205 210		
Asp Phe Lys Ser Asp Leu Trp Ser Leu Gly Ile Thr Ala Ile Glu		
215 220 225		

Met	Ala	Glu	Gly	Ala	Pro	Pro	Leu	Cys	Asp	Met	His	Pro	Met	Arg
				230					235					240
Ala	Leu	Phe	Leu	Ile	Pro	Arg	Asn	Pro	Ala	Pro	Arg	Leu	Lys	Ser
				245					250					255
Lys	Lys	Trp	Ser	Lys	Lys	Phe	Gln	Ser	Phe	Ile	Glu	Ser	Cys	Leu
				260					265					270
Val	Lys	Asn	His	Ser	Gln	Arg	Pro	Ala	Thr	Glu	Gln	Leu	Met	Lys
				275					280					285
His	Pro	Phe	Ile	Arg	Asp	Gln	Pro	Asn	Glu	Arg	Gln	Val	Arg	Ile
				290					295					300
Gln	Leu	Lys	Asp	His	Ile	Asp	Arg	Thr	Lys	Lys	Lys	Arg	Gly	Glu
				305					310					315
Lys	Asp	Glu	Thr	Glu	Tyr	Glu	Tyr	Ser	Gly	Ser	Glu	Glu	Glu	Glu
				320					325					330
Glu	Glu	Asn	Asp	Ser	Gly	Glu	Pro	Ser	Ser	Ile	Leu	Asn	Leu	Pro
				335					340					345
Gly	Glu	Ser	Thr	Leu	Arg	Arg	Asp	Phe	Leu	Arg	Leu	Gln	Leu	Ala
				350					355					360
Asn	Lys	Glu	Arg	Ser	Glu	Ala	Leu	Arg	Arg	Gln	Gln	Leu	Glu	Gln
				365					370					375
Gln	Gln	Arg	Glu	Asn	Glu	Glu	His	Lys	Arg	Gln	Leu	Leu	Ala	Glu
				380					385					390
Arg	Gln	Lys	Arg	Ile	Glu	Glu	Gln	Lys	Glu	Gln	Arg	Arg	Arg	Leu
				395					400					405
Glu	Glu	Ile	Pro	His	Leu	Val	Ala	Val	Lys	Ser	Gln	Gly	Pro	Ala
				410					415					420
Leu	Thr	Ala	Ser	Gln	Ser	Val	His	Glu	Gln	Pro	Thr	Lys	Gly	Leu
				425					430					435
Ser	Gly	Phe	Gln	Glu	Ala	Leu	Asn	Val	Thr	Ser	His	Arg	Val	Glu
				440					445					450
Met	Pro	Arg	Gln	Asn	Ser	Asp	Pro	Thr	Ser	Glu	Asn	Pro	Pro	Leu
				455					460					465
Pro	Thr	Arg	Ile	Glu	Lys	Phe	Asp	Arg	Ser	Ser	Trp	Leu	Arg	Gln
				470					475					480
Glu	Glu	Asp	Ile	Pro	Pro	Lys	Val	Pro	Gln	Arg	Thr	Thr	Ser	Ile
				485					490					495
Ser	Pro	Ala	Leu	Ala	Arg	Lys	Asn	Ser	Pro	Gly	Asn	Gly	Ser	Ala
				500					505					510
Leu	Gly	Pro	Arg	Leu	Gly	Ser	Gln	Pro	Ile	Arg	Ala	Ser	Asn	Pro
				515					520					525
Asp	Leu	Arg	Arg	Thr	Glu	Pro	Ile	Leu	Glu	Ser	Pro	Leu	Gln	Arg
				530					535					540
Thr	Ser	Ser	Gly	Ser	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Ser	Ser	Gln
				545					550					555
Pro	Ser	Ser	Gln	Gly	Gly	Ser	Gln	Pro	Gly	Ser	Gln	Ala	Gly	Ser
				560					565					570
Ser	Gly	Arg	Thr	Arg	Val	Arg	Ala	Asn	Ser	Lys	Ser	Glu	Gly	Ser
				575					580					585
Pro	Val	Leu	Pro	His	Glu	Pro	Ala	Lys	Val	Lys	Pro	Glu	Glu	Ser
				590					595					600
Arg	Asp	Ile	Thr	Arg	Pro	Ser	Arg	Pro	Ala	Asp	Leu	Thr	Ala	Leu
				605					610					615
Ala	Lys	Glu	Leu	Arg	Glu	Leu	Arg	Ile	Glu	Glu	Thr	Asn	Arg	Pro
				620					625					630
Met	Lys	Lys	Val	Thr	Asp	Tyr	Ser	Ser	Ser	Ser	Glu	Glu	Ser	Glu
				635					640					645
Ser	Ser	Glu	Glu	Glu	Glu	Glu	Asp	Gly	Glu	Ser	Glu	Thr	His	Asp
				650					655					660
Gly	Thr	Val	Ala	Val	Ser	Asp	Ile	Pro	Arg	Leu	Ile	Pro	Thr	Gly
				665					670					675
Ala	Pro	Gly	Ser	Asn	Glu	Gln	Tyr	Asn	Val	Gly	Met	Val	Gly	Thr
				680					685					690
His	Gly	Leu	Glu	Thr	Ser	His	Ala	Asp	Ser	Phe	Ser	Gly	Ser	Ile
				695					700					705

Ser	Arg	Glu	Gly	Thr	Leu	Met	Ile	Arg	Glu	Thr	Ser	Gly	Glu	Lys
				710					715					720
Lys	Arg	Ser	Gly	His	Ser	Asp	Ser	Asn	Gly	Phe	Ala	Gly	His	Ile
				725					730					735
Asn	Leu	Pro	Asp	Leu	Val	Gln	Gln	Ser	His	Ser	Pro	Ala	Gly	Thr
				740					745					750
Pro	Thr	Glu	Gly	Leu	Gly	Arg	Val	Ser	Thr	His	Ser	Gln	Glu	Met
				755					760					765
Asp	Ser	Gly	Thr	Glu	Tyr	Gly	Met	Gly	Ser	Ser	Thr	Lys	Ala	Ser
				770					775					780
Phe	Thr	Pro	Phe	Val	Asp	Pro	Arg	Val	Tyr	Gln	Thr	Ser	Pro	Thr
				785					790					795
Asp	Glu	Asp	Glu	Glu	Asp	Glu	Glu	Ser	Ser	Ala	Ala	Ala	Leu	Phe
				800					805					810
Thr	Ser	Glu	Leu	Leu	Arg	Gln	Glu	Gln	Ala	Lys	Leu	Asn	Glu	Ala
				815					820					825
Arg	Lys	Ile	Ser	Val	Val	Asn	Val	Asn	Pro	Thr	Asn	Ile	Arg	Pro
				830					835					840
His	Ser	Asp	Thr	Pro	Glu	Ile	Arg	Gln	Tyr	Lys	Lys	Arg	Phe	Asn
				845					850					855
Ser	Glu	Ile	Leu	Cys	Ala	Ala	Leu	Trp	Gly	Val	Asn	Leu	Leu	Val
				860					865					870
Gly	Thr	Glu	Asn	Gly	Leu	Met	Leu	Leu	Asp	Arg	Ser	Gly	Gln	Gly
				875					880					885
Lys	Val	Tyr	Asn	Leu	Ile	Asn	Arg	Arg	Arg	Phe	Gln	Gln	Met	Asp
				890					895					900
Val	Leu	Glu	Gly	Leu	Asn	Val	Leu	Val	Thr	Ile	Ser	Gly	Lys	Lys
				905					910					915
Asn	Lys	Leu	Arg	Val	Tyr	Tyr	Leu	Ser	Trp	Leu	Arg	Asn	Arg	Ile
				920					925					930
Leu	His	Asn	Asp	Pro	Glu	Val	Glu	Lys	Lys	Gln	Gly	Trp	Ile	Thr
				935					940					945
Val	Gly	Asp	Leu	Glu	Gly	Cys	Ile	His	Tyr	Lys	Val	Val	Lys	Tyr
				950					955					960
Glu	Arg	Ile	Lys	Phe	Leu	Val	Ile	Ala	Leu	Lys	Asn	Ala	Val	Glu
				965					970					975
Ile	Tyr	Ala	Trp	Ala	Pro	Lys	Pro	Tyr	His	Lys	Phe	Met	Ala	Phe
				980					985					990
Lys	Ser	Phe	Ala	Asp	Leu	Gln	His	Lys	Pro	Leu	Leu	Val	Asp	Leu
				995					1000					1005
Thr	Val	Glu	Glu	Gly	Gln	Arg	Leu	Lys	Val	Ile	Phe	Gly	Ser	His
				1010					1015					1020
Thr	Gly	Phe	His	Val	Ile	Asp	Val	Asp	Ser	Gly	Asn	Ser	Tyr	Asp
				1025					1030					1035
Ile	Tyr	Ile	Pro	Ser	His	Ile	Gln	Gly	Asn	Ile	Thr	Pro	His	Ala
				1040					1045					1050
Ile	Val	Ile	Leu	Pro	Lys	Thr	Asp	Gly	Met	Glu	Met	Leu	Val	Cys
				1055					1060					1065
Tyr	Glu	Asp	Glu	Gly	Val	Tyr	Val	Asp	Thr	Tyr	Gly	Arg	Ile	Thr
				1070					1075					1080
Lys	Asp	Val	Val	Leu	Gln	Trp	Gly	Glu	Met	Pro	Thr	Ser	Val	Ala
				1085					1090					1095
Tyr	Ile	His	Ser	Asp	Gln	Ile	Met	Gly	Trp	Gly	Glu	Lys	Ala	Ile
				1100					1105					1110
Glu	Ile	Arg	Ser	Val	Glu	Thr	Gly	His	Leu	Asp	Gly	Val	Phe	Met
				1115					1120					1125
His	Lys	Arg	Ala	Gln	Arg	Leu	Lys	Phe	Leu	Cys	Glu	Arg	Asn	Asp
				1130					1135					1140
Lys	Val	Phe	Phe	Ala	Ser	Val	Arg	Ser	Gly	Gly	Ser	Ser	Gln	Val
				1145					1150					1155
Phe	Phe	Met	Thr	Leu	Asn	Arg	Asn	Ser	Met	Met	Asn	Trp		
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 Ala Met Glu Lys Ser Lys Ala Thr Pro Ala Ala Arg Ala Ser Lys
 20 25 30
 Arg Ile Val Leu Pro Glu Pro Ser Ile Arg Ser Val Met Gln Lys
 35 40 45
 Tyr Leu Ala Glu Arg Asn Glu Ile Thr Leu Asp Lys Ile Phe Asn
 50 55 60
 Gln Lys Ile Gly Phe Leu Leu Phe Lys Asp Phe Cys Leu Asn Glu
 65 70 75
 Ile Asn Glu Ala Val Pro Gln Val Lys Phe Tyr Glu Glu Ile Lys
 80 85 90
 Glu Tyr Glu Lys Leu Asp Asn Glu Glu Asp Arg Leu Cys Arg Ser
 95 100 105
 Arg Gln Ile Tyr Asp Ala Tyr Ile Met Lys Glu Leu Leu Ser Cys
 110 115 120
 Ser His Pro Phe Ser Lys Gln Ala Val Glu His Val Gln Ser His
 125 130 135
 Leu Ser Lys Lys Gln Val Thr Ser Thr Leu Phe Gln Pro Tyr Ile
 140 145 150
 Glu Glu Ile Cys Glu Ser Leu Arg Gly Asp Ile Phe Gln Lys Phe
 155 160 165
 Met Glu Ser Asp Lys Phe Thr Arg Phe Cys Gln Trp Lys Asn Val
 170 175 180
 Glu Leu Asn Ile His Leu Thr Met Asn Glu Phe Ser Val His Arg
 185 190 195
 Ile Ile Gly Arg Gly Gly Phe Gly Glu Val Tyr Gly Cys Arg Lys
 200 205 210
 Ala Asp Thr Gly Lys Met Tyr Ala Met Lys Cys Leu Asp Lys Lys
 215 220 225
 Arg Ile Lys Met Lys Gln Gly Glu Thr Leu Ala Leu Asn Glu Arg
 230 235 240
 Ile Met Leu Ser Leu Val Ser Thr Gly Asp Cys Pro Phe Ile Val
 245 250 255
 Cys Met Thr Tyr Ala Phe His Thr Pro Asp Lys Leu Cys Phe Ile
 260 265 270
 Leu Asp Leu Met Asn Gly Gly Asp Leu His Tyr His Leu Ser Gln
 275 280 285
 His Gly Val Phe Ser Glu Lys Glu Met Arg Phe Tyr Ala Thr Glu
 290 295 300
 Ile Ile Leu Gly Leu Glu His Met His Asn Arg Phe Val Val Tyr
 305 310 315
 Arg Asp Leu Lys Pro Ala Asn Ile Leu Leu Asp Glu His Gly His
 320 325 330
 Ala Arg Ile Ser Asp Leu Gly Leu Ala Cys Asp Phe Ser Lys Lys
 335 340 345
 Lys Pro His Ala Ser Val Gly Thr His Gly Tyr Met Ala Pro Glu
 350 355 360
 Val Leu Gln Lys Gly Thr Ala Tyr Asp Ser Ser Ala Asp Trp Phe
 365 370 375
 Ser Leu Gly Cys Met Leu Phe Lys Leu Leu Arg Gly His Ser Pro
 380 385 390
 Phe Arg Gln His Lys Thr Lys Asp Lys His Glu Ile Asp Arg Met
 395 400 405
 Thr Leu Thr Val Asn Val Glu Leu Pro Asp Thr Phe Ser Pro Glu

Leu Lys Ser Leu	410	Leu Glu Gly Leu Leu	415	Gln Arg Asp Val Ser Lys	420
Arg Leu Gly Cys	425	His Gly Gly Gly Ser	430	Gln Glu Val Lys Glu His	435
Ser Phe Phe Lys	440	Gly Val Asp Trp Gln	445	His Val Tyr Leu Gln Lys	450
Tyr Pro Pro Pro	455	Leu Ile Pro Pro Arg	460	Gly Glu Val Asn Ala Ala	465
Asp Ala Phe Asp	470	Ile Gly Ser Phe Asp	475	Glu Glu Asp Thr Lys Gly	480
Ile Lys Leu Leu	485	Asp Cys Asp Gln Glu	490	Leu Tyr Lys Asn Phe Pro	495
Leu Val Ile Ser	500	Glu Arg Trp Gln Gln	505	Glu Val Thr Glu Thr Val	510
Tyr Glu Ala Val	515	Asn Ala Asp Thr Asp	520	Lys Ile Glu Ala Arg Lys	525
Arg Ala Lys Asn	530	Lys Gln Leu Gly His	535	Glu Glu Asp Tyr Ala Leu	540
Gly Lys Asp Cys	545	Ile Met His Gly Tyr	550	Met Leu Lys Leu Gly Asn	555
Pro Phe Leu Thr	560	Gln Trp Gln Arg Arg	565	Tyr Phe Tyr Leu Phe Pro	570
Asn Arg Leu Glu	575	Trp Arg Gly Glu Gly	580	Glu Ser Arg Ser Asp Pro	585
Glu Phe Val Gln	590	Trp Lys Lys Glu Leu	595	Asn Glu Thr Phe Lys Glu	600
Ala Arg Arg Leu	605	Leu Arg Arg Ala Pro	610	Lys Phe Leu Asn Lys Pro	615
Arg Ser Gly Thr	620	Val Glu Leu Pro Lys	625	Pro Ser Leu Cys His Arg	630
Asn Ser Asn Gly	635	Leu	640		645
	650				

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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 7517238CD1

Met Lys Asp Tyr Asp	1	Glu Leu Leu Lys Tyr	10	Tyr Glu Leu His Glu	15
Thr Ile Gly Thr Gly	5	Gly Phe Ala Lys Val	20	Lys Leu Ala Cys His	25
Ile Leu Thr Gly Glu	25	Met Val Ala Ile Lys	30	Ile Met Asp Lys Asn	35
Thr Leu Gly Ser Asp	35	Leu Pro Arg Ile Lys	40	Thr Glu Ile Glu Ala	45
Leu Lys Asn Leu Arg	50	His Gln His Ile Cys	55	Gln Leu Tyr His Val	60
Leu Glu Thr Ala Asn	65	Lys Ile Phe Met Val	70	Leu Glu Glu Asn Leu	75
Leu Phe Asp Glu Tyr	80	His Lys Leu Lys Leu	85	Ile Asp Phe Gly Leu	90
Cys Ala Lys Pro Lys	95	Gly Asn Lys Asp Tyr	100	His Leu Gln Thr Cys	105
Cys Gly Ser Leu Ala	110	Tyr Ala Ala Pro Glu	115	Leu Ile Gln Gly Lys	120
Ser Tyr Leu Gly Ser	125	Glu Ala Asp Val Trp	130	Ser Met Gly Ile Leu	135
	140		145		150

Leu Tyr Val Leu	Met	Cys	Gly	Phe	Leu	Pro	Phe	Asp	Asp	Asp	Asn
	155					160					165
Val Met Ala Leu	Tyr	Lys	Lys	Ile	Met	Arg	Gly	Lys	Tyr	Asp	Val
	170					175					180
Pro Lys Trp Leu	Ser	Pro	Ser	Ser	Ile	Leu	Leu	Leu	Gln	Gln	Met
	185					190					195
Leu Gln Val Asp	Pro	Lys	Lys	Arg	Ile	Ser	Met	Lys	Asn	Leu	Leu
	200					205					210
Asn His Pro Trp	Ile	Met	Gln	Asp	Tyr	Asn	Tyr	Pro	Val	Glu	Trp
	215					220					225
Gln Ser Lys Asn	Pro	Phe	Ile	His	Leu	Asp	Asp	Asp	Cys	Val	Thr
	230					235					240
Glu Leu Ser Val	His	His	Arg	Asn	Asn	Arg	Gln	Thr	Met	Glu	Asp
	245					250					255
Leu Ile Ser Leu	Trp	Gln	Tyr	Asp	His	Leu	Thr	Ala	Thr	Tyr	Leu
	260					265					270
Leu Leu Leu Ala	Lys	Lys	Ala	Arg	Gly	Lys	Pro	Val	Arg	Leu	Arg
	275					280					285
Leu Ser Ser Phe	Ser	Cys	Gly	Gln	Ala	Ser	Ala	Thr	Pro	Phe	Thr
	290					295					300
Asp Ile Lys Ser	Asn	Asn	Trp	Ser	Leu	Glu	Asp	Val	Thr	Ala	Ser
	305					310					315
Asp Lys Asn Tyr	Val	Ala	Gly	Leu	Ile	Asp	Tyr	Asp	Trp	Cys	Glu
	320					325					330
Asp Asp Leu Ser	Thr	Gly	Ala	Ala	Thr	Pro	Arg	Thr	Ser	Gln	Phe
	335					340					345
Thr Lys Tyr Trp	Thr	Glu	Ser	Asn	Gly	Ala	Glu	Ser	Lys	Ser	Leu
	350					355					360
Thr Pro Ala Leu	Cys	Arg	Thr	Pro	Ala	Asn	Lys	Leu	Lys	Asn	Lys
	365					370					375
Glu Asn Val Tyr	Thr	Pro	Lys	Ser	Ala	Val	Lys	Asn	Glu	Glu	Tyr
	380					385					390
Phe Met Phe Pro	Glu	Pro	Lys	Thr	Pro	Val	Asn	Lys	Asn	Gln	His
	395					400					405
Lys Arg Glu Ile	Leu	Thr	Thr	Pro	Asn	Arg	Tyr	Thr	Thr	Pro	Ser
	410					415					420
Lys Ala Arg Asn	Gln	Cys	Leu	Lys	Glu	Thr	Pro	Ile	Lys	Ile	Pro
	425					430					435
Val Asn Ser Thr	Gly	Thr	Asp	Lys	Leu	Met	Thr	Gly	Val	Ile	Ser
	440					445					450
Pro Glu Arg Arg	Cys	Arg	Ser	Val	Glu	Leu	Asp	Leu	Asn	Gln	Ala
	455					460					465
His Met Glu Glu	Thr	Pro	Lys	Arg	Lys	Gly	Ala	Lys	Val	Phe	Gly
	470					475					480
Ser Leu Glu Arg	Gly	Leu	Asp	Lys	Val	Ile	Thr	Val	Leu	Thr	Arg
	485					490					495
Ser Lys Arg Lys	Gly	Ser	Ala	Arg	Asp	Gly	Pro	Arg	Arg	Leu	Lys
	500					505					510
Leu His Tyr Asn	Val	Thr	Thr	Thr	Arg	Leu	Val	Asn	Pro	Asp	Gln
	515					520					525
Leu Leu Asn Glu	Ile	Met	Ser	Ile	Leu	Pro	Lys	Lys	His	Val	Asp
	530					535					540
Phe Val Gln Lys	Gly	Tyr	Thr	Leu	Lys	Cys	Gln	Thr	Gln	Ser	Asp
	545					550					555
Phe Gly Lys Val	Thr	Met	Gln	Phe	Glu	Leu	Glu	Val	Cys	Gln	Leu
	560					565					570
Gln Lys Pro Asp	Val	Val	Gly	Ile	Arg	Arg	Gln	Arg	Leu	Lys	Gly
	575					580					585
Asp Ala Trp Val	Tyr	Lys	Arg	Leu	Val	Glu	Asp	Ile	Leu	Ser	Ser
	590					595					600
Cys Lys Val											

<210> 15

<211> 750
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7518685CD1

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1 5 10 15
Ser Lys Lys Ile Thr Lys Glu Glu Phe Ala Asn Glu Phe Leu Lys
20 25 30
Leu Lys Arg Gln Ser Thr Lys Tyr Lys Ala Asp Lys Thr Tyr Pro
35 40 45
Thr Thr Val Ala Glu Lys Pro Lys Asn Ile Lys Lys Asn Arg Tyr
50 55 60
Lys Asp Ile Leu Pro Tyr Asp Tyr Ser Arg Val Glu Leu Ser Leu
65 70 75
Ile Thr Ser Asp Glu Asp Ser Ser Tyr Ile Asn Ala Asn Phe Ile
80 85 90
Lys Gly Val Tyr Gly Pro Lys Ala Tyr Ile Ala Thr Gln Gly Pro
95 100 105
Leu Ser Thr Thr Leu Leu Asp Phe Trp Arg Met Ile Trp Glu Tyr
110 115 120
Ser Val Leu Glu Thr Arg Thr Ile Tyr Gln Phe His Tyr Glu Asn
125 130 135
Trp Pro Asp His Asp Val Pro Ser Ser Ile Asp Pro Ile Leu Glu
140 145 150
Leu Ile Trp Asp Val Arg Cys Tyr Gln Glu Asp Asp Ser Val Pro
155 160 165
Ile Cys Ile His Cys Ser Ala Gly Cys Gly Arg Thr Gly Val Ile
170 175 180
Cys Ala Ile Asp Tyr Thr Trp Met Leu Leu Lys Asp Gly Ile Ile
185 190 195
Pro Glu Asn Phe Ser Val Phe Ser Leu Ile Arg Glu Met Arg Thr
200 205 210
Gln Arg Pro Ser Leu Val Gln Thr Gln Glu Gln Tyr Glu Leu Val
215 220 225
Tyr Asn Ala Val Leu Glu Leu Phe Lys Arg Gln Met Asp Val Ile
230 235 240
Arg Asp Lys His Ser Gly Thr Glu Ser Gln Ala Lys His Cys Ile
245 250 255
Pro Glu Lys Asn His Thr Leu Gln Ala Asp Ser Tyr Ser Pro Asn
260 265 270
Leu Pro Lys Ser Thr Thr Lys Ala Ala Lys Met Met Asn Gln Gln
275 280 285
Arg Thr Lys Met Glu Ile Lys Glu Ser Ser Ser Phe Asp Phe Arg
290 295 300
Thr Ser Glu Ile Ser Ala Lys Glu Glu Leu Val Leu His Pro Ala
305 310 315
Lys Ser Ser Thr Ser Phe Asp Phe Leu Glu Leu Asn Tyr Ser Phe
320 325 330
Asp Lys Asn Ala Asp Thr Thr Met Lys Trp Gln Thr Lys Ala Phe
335 340 345
Pro Ile Val Gly Glu Pro Leu Gln Lys His Gln Ser Leu Asp Leu
350 355 360
Gly Ser Leu Leu Phe Glu Gly Cys Ser Asn Ser Lys Pro Val Asn
365 370 375
Ala Ala Gly Arg Tyr Phe Asn Ser Lys Val Pro Ile Thr Arg Thr
380 385 390
Lys Ser Thr Pro Phe Glu Leu Ile Gln Gln Arg Glu Thr Lys Glu
395 400 405
Val Asp Ser Lys Glu Asn Phe Ser Tyr Leu Glu Ser Gln Pro His

	410		415		420
Asp Ser Cys Phe	Val Glu Met Gln Ala	Gln Lys Val Met His	Val		
	425		430		435
Ser Ser Ala Glu	Leu Asn Tyr Ser Leu	Pro Tyr Asp Ser Lys	His		
	440		445		450
Gln Ile Arg Asn	Ala Ser Asn Val Lys	His His Asp Ser Ser	Ala		
	455		460		465
Leu Gly Val Tyr	Ser Tyr Ile Pro Leu	Val Glu Asn Pro Tyr	Phe		
	470		475		480
Ser Ser Trp Pro	Pro Ser Gly Thr Ser	Ser Lys Met Ser Leu	Asp		
	485		490		495
Leu Pro Glu Lys	Arg Asp Gly Thr Val	Phe Pro Ser Ser Leu	Leu		
	500		505		510
Pro Thr Ser Ser	Ser Leu Phe Ser	Tyr Tyr Asn Ser His	Asp		
	515		520		525
Ser Leu Ser Leu	Asn Ser Pro Thr Asn	Ile Ser Ser Leu Leu	Asn		
	530		535		540
Gln Glu Ser Ala	Val Leu Ala Thr Ala	Pro Arg Ile Asp Asp	Glu		
	545		550		555
Ile Pro Pro Pro	Leu Pro Val Arg Thr	Pro Glu Ser Phe Ile	Val		
	560		565		570
Val Glu Glu Ala	Gly Glu Phe Ser Pro	Asn Val Pro Asn Pro	Leu		
	575		580		585
Ser Ser Ala Val	Lys Val Lys Ile Gly	Thr Ser Leu Glu Trp	Gly		
	590		595		600
Gly Thr Ser Glu	Pro Lys Lys Phe Asp	Asp Ser Val Ile Leu	Arg		
	605		610		615
Pro Ser Lys Ser	Val Lys Leu Arg Ser	Pro Lys Ser Glu Leu	His		
	620		625		630
Gln Asp Arg Ser	Ser Pro Pro Pro Pro	Leu Pro Glu Arg Thr	Leu		
	635		640		645
Glu Ser Phe Phe	Leu Ala Asp Glu Asp	Cys Met Gln Ala Gln	Ser		
	650		655		660
Ile Glu Thr Tyr	Ser Thr Ser Tyr Pro	Asp Thr Met Glu Asn	Ser		
	665		670		675
Thr Ser Ser Lys	Gln Thr Leu Lys Thr	Pro Gly Lys Ser Phe	Thr		
	680		685		690
Arg Ser Lys Ser	Leu Lys Ile Leu Arg	Asn Met Lys Lys Ser	Ile		
	695		700		705
Cys Asn Ser Cys	Pro Pro Asn Lys Pro	Ala Glu Ser Val Gln	Ser		
	710		715		720
Asn Asn Ser Ser	Ser Phe Leu Asn Phe	Gly Phe Ala Asn Arg	Phe		
	725		730		735
Ser Lys Pro Glu	Gly Pro Arg Asn Pro	Pro Pro Thr Trp Asn	Ile		
	740		745		750

<210> 16

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7520192CD1

<400> 16

Met Thr Ser Arg Phe	Arg Leu Pro Ala Gly	Arg Thr Tyr Asn Val	
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Arg Ala Ser Glu Leu	Ala Arg Asp Arg Gln	His Thr Glu Val Val	
	20	25	30
Cys Asn Ile Leu Leu	Leu Asp Asn Thr Val	Gln Ala Phe Lys Val	
	35	40	45
Asn Lys His Asp Gln	Gly Gln Val Leu Leu	Asp Val Val Phe Lys	

	50		55		60									
His	Leu	Asp	Leu	Thr	Glu	Gln	Asp	Tyr	Phe	Gly	Leu	Gln	Leu	Ala
	65		70		75									
Asp	Asp	Ser	Thr	Asp	Asn	Pro	Arg	Trp	Leu	Asp	Pro	Asn	Lys	Pro
	80		85		90									
Ile	Arg	Lys	Gln	Leu	Lys	Arg	Gly	Ser	Pro	Tyr	Ser	Leu	Asn	Phe
	95		100		105									
Arg	Val	Lys	Phe	Phe	Val	Ser	Asp	Pro	Asn	Lys	Leu	Gln	Glu	Glu
	110		115		120									
Tyr	Thr	Arg	Gly	Leu	Ser	Pro	Ala	Glu	Ala	Glu	Phe	Asn	Tyr	Leu
	125		130		135									
Asn	Thr	Ala	Arg	Thr	Leu	Glu	Leu	Tyr	Gly	Val	Glu	Phe	His	Tyr
	140		145		150									
Ala	Arg	Asp	Gln	Ser	Asn	Asn	Glu	Ile	Met	Ile	Gly	Val	Met	Ser
	155		160		165									
Gly	Gly	Ile	Leu	Ile	Tyr	Lys	Asn	Arg	Val	Arg	Met	Asn	Thr	Phe
	170		175		180									
Pro	Trp	Leu	Lys	Ile	Val	Lys	Ile	Ser	Phe	Lys	Cys	Lys	Gln	Phe
	185		190		195									
Phe	Ile	Gln	Leu	Arg	Lys	Glu	Leu	Ile	Pro	Lys				
	200		205											

<210> 17

<211> 733

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7520428CD1

<400> 17

Met	Met	Lys	Arg	Arg	Arg	Glu	Arg	Leu	Gly	Ala	Pro	Cys	Leu	Arg
1				5					10					15
Ile	Gln	Ile	Ser	Thr	Leu	Cys	Arg	Gly	Ala	Glu	Val	Asn	Gln	His
				20					25					30
Met	Phe	Ser	Pro	Thr	Ser	Ala	Pro	Ala	Leu	Phe	Leu	Thr	Lys	Val
				35					40					45
Pro	Phe	Ser	Ala	Asp	Cys	Ala	Leu	Ala	Thr	Ser	Pro	Leu	Ala	Ile
				50					55					60
Phe	Leu	Asn	Leu	Arg	Ala	His	Ser	Ser	Pro	Gly	Thr	Pro	Cys	Ser
				65					70					75
Ser	Arg	Pro	Leu	Pro	Trp	Ser	Cys	Arg	Thr	Ser	Asn	Arg	Lys	Ser
				80					85					90
Leu	Ile	Val	Thr	Ser	Ser	Thr	Ser	Pro	Thr	Leu	Pro	Arg	Pro	His
				95					100					105
Ser	Pro	Leu	His	Gly	His	Thr	Gly	Asn	Ser	Pro	Leu	Asp	Ser	Pro
				110					115					120
Arg	Asn	Phe	Ser	Pro	Asn	Ala	Pro	Ala	His	Phe	Ser	Phe	Val	Pro
				125					130					135
Ala	Arg	Arg	Thr	Asp	Gly	Arg	Arg	Trp	Ser	Leu	Ala	Ser	Leu	Pro
				140					145					150
Ser	Ser	Gly	Tyr	Gly	Thr	Asn	Thr	Pro	Ser	Ser	Thr	Val	Ser	Ser
				155					160					165
Ser	Cys	Ser	Ser	Gln	Glu	Lys	Leu	His	Gln	Leu	Pro	Phe	Gln	Pro
				170					175					180
Thr	Ala	Asp	Glu	Leu	His	Phe	Leu	Thr	Lys	His	Phe	Ser	Thr	Glu
				185					190					195
Ser	Val	Pro	Asp	Glu	Glu	Gly	Arg	Gln	Ser	Pro	Ala	Met	Arg	Pro
				200					205					210
Arg	Ser	Arg	Ser	Leu	Ser	Pro	Gly	Arg	Ser	Pro	Val	Ser	Phe	Asp
				215					220					225
Ser	Glu	Ile	Ile	Met	Met	Asn	His	Val	Tyr	Lys	Glu	Arg	Phe	Pro
				230					235					240

Lys	Ala	Thr	Ala	Gln	Met	Glu	Glu	Arg	Leu	Ala	Glu	Phe	Ile	Ser	
				245					250					255	
Ser	Asn	Thr	Pro	Asp	Ser	Val	Leu	Pro	Leu	Ala	Asp	Gly	Ala	Leu	
				260					265					270	
Ser	Phe	Ile	His	His	Gln	Val	Ile	Glu	Met	Ala	Arg	Asp	Cys	Leu	
				275					280					285	
Asp	Lys	Ser	Arg	Ser	Gly	Leu	Ile	Thr	Ser	Gln	Tyr	Phe	Tyr	Glu	
				290					295					300	
Leu	Gln	Glu	Asn	Leu	Glu	Lys	Leu	Leu	Gln	Asp	Ala	His	Glu	Arg	
				305					310					315	
Ser	Glu	Ser	Ser	Glu	Val	Ala	Phe	Val	Met	Gln	Leu	Val	Lys	Lys	
				320					325					330	
Leu	Met	Ile	Ile	Ile	Ala	Arg	Pro	Ala	Arg	Leu	Leu	Glu	Cys	Leu	
				335					340					345	
Glu	Phe	Asp	Pro	Glu	Glu	Phe	Tyr	His	Leu	Leu	Glu	Ala	Ala	Glu	
				350					355					360	
Gly	His	Ala	Lys	Glu	Gly	Gln	Gly	Ile	Lys	Cys	Asp	Ile	Pro	Arg	
				365					370					375	
Tyr	Ile	Val	Ser	Gln	Leu	Gly	Leu	Thr	Arg	Asp	Pro	Leu	Glu	Glu	
				380					385					390	
Met	Ala	Gln	Leu	Ser	Ser	Cys	Asp	Ser	Pro	Asp	Thr	Pro	Glu	Thr	
				395					400					405	
Asp	Asp	Ser	Ile	Glu	Gly	His	Gly	Ala	Ser	Leu	Pro	Ser	Lys	Lys	
				410					415					420	
Thr	Pro	Ser	Glu	Glu	Asp	Phe	Glu	Thr	Ile	Lys	Leu	Ile	Ser	Asn	
				425					430					435	
Gly	Ala	Tyr	Gly	Ala	Val	Phe	Leu	Val	Arg	His	Lys	Ser	Thr	Arg	
				440					445					450	
Gln	Arg	Phe	Ala	Met	Lys	Lys	Ile	Asn	Lys	Gln	Asn	Leu	Ile	Leu	
				455					460					465	
Arg	Asn	Gln	Ile	Gln	Gln	Ala	Phe	Val	Glu	Arg	Asp	Ile	Leu	Thr	
				470					475					480	
Phe	Ala	Glu	Asn	Pro	Phe	Val	Val	Ser	Met	Phe	Cys	Ser	Phe	Asp	
				485					490					495	
Thr	Lys	Arg	His	Leu	Cys	Met	Val	Met	Glu	Tyr	Val	Glu	Gly	Gly	
				500					505					510	
Asp	Cys	Ala	Thr	Leu	Leu	Lys	Asn	Ile	Gly	Ala	Leu	Pro	Val	Asp	
				515					520					525	
Met	Val	Arg	Leu	Tyr	Phe	Ala	Glu	Thr	Val	Leu	Ala	Leu	Glu	Tyr	
				530					535					540	
Leu	His	Asn	Tyr	Gly	Ile	Val	His	Arg	Asp	Leu	Lys	Pro	Asp	Asn	
				545					550					555	
Leu	Leu	Ile	Thr	Ser	Met	Gly	His	Ile	Lys	Leu	Thr	Asp	Phe	Gly	
				560					565					570	
Leu	Ser	Lys	Met	Gly	Leu	Met	Ser	Leu	Thr	Thr	Asn	Leu	Tyr	Glu	
				575					580					585	
Gly	His	Ile	Glu	Lys	Asp	Ala	Arg	Glu	Phe	Leu	Asp	Lys	Gln	Val	
				590					595					600	
Cys	Gly	Thr	Pro	Glu	Tyr	Ile	Ala	Pro	Glu	Val	Ile	Leu	Arg	Gln	
				605					610					615	
Gly	Tyr	Gly	Lys	Pro	Val	Asp	Trp	Trp	Ala	Met	Gly	Ile	Ile	Leu	
				620					625					630	
Tyr	Glu	Phe	Leu	Val	Gly	Cys	Val	Pro	Phe	Phe	Gly	Asp	Thr	Pro	
				635					640					645	
Glu	Glu	Leu	Phe	Gly	Gln	Val	Ile	Ser	Asp	Glu	Ile	Val	Trp	Pro	
				650					655					660	
Glu	Gly	Asp	Glu	Ala	Leu	Pro	Pro	Asp	Ala	Gln	Asp	Leu	Thr	Ser	
				665					670					675	
Lys	Leu	Leu	His	Gln	Asn	Pro	Leu	Glu	Arg	Leu	Gly	Thr	Gly	Ser	
				680					685					690	
Ala	Tyr	Glu	Val	Lys	Gln	His	Pro	Phe	Phe	Thr	Gly	Leu	Asp	Trp	
				695					700					705	
Thr	Gly	Leu	Leu	Arg	Gln	Lys	Ala	Glu	Phe	Ile	Pro	Gln	Leu	Glu	
				710					715					720	

Ser Glu Asp Asp Thr Ser Tyr Phe Asp Thr Arg Ser Glu
725 730

<210> 18
<211> 114
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7522586CD1

<400> 18
Met Gly Asp Glu Lys Asp Ser Trp Lys Val Lys Thr Leu Asp Glu
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Ile Leu Gln Glu Lys Lys Arg Arg Lys Glu Gln Glu Glu Lys Ala
20 25 30
Glu Ile Lys Arg Leu Lys Asn Ser Asp Asp Arg Asp Ser Lys Arg
35 40 45
Asp Ser Leu Glu Glu Gly Glu Leu Arg Asp His Cys Met Glu Ile
50 55 60
Thr Ile Arg Asn Ser Pro Tyr Arg Arg Glu Asp Ser Met Glu Asp
65 70 75
Arg Gly Glu Glu Asp Asp Ser Leu Ala Ile Lys Pro Pro Gln Gln
80 85 90
Met Ser Arg Lys Glu Lys Val His His Arg Lys Asp Glu Lys Arg
95 100 105
Lys Glu Lys Trp Thr Ala Trp Ser Ser
110

<210> 19
<211> 612
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524017CD1

<400> 19
Met Lys Asp Tyr Asp Glu Leu Leu Lys Tyr Tyr Glu Leu His Glu
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Thr Ile Gly Thr Gly Gly Phe Ala Lys Val Lys Leu Ala Cys His
20 25 30
Ile Leu Thr Gly Glu Met Val Ala Ile Lys Ile Met Asp Lys Asn
35 40 45
Thr Leu Gly Tyr Cys Pro Gly Gly Glu Leu Phe Asp Tyr Ile Ile
50 55 60
Ser Gln Asp Arg Leu Ser Glu Glu Glu Thr Arg Val Val Phe Arg
65 70 75
Gln Ile Val Ser Ala Val Ala Tyr Val His Ser Gln Gly Tyr Ala
80 85 90
His Arg Asp Leu Lys Pro Glu Asn Leu Leu Phe Asp Glu Tyr His
95 100 105
Lys Leu Lys Leu Ile Asp Phe Gly Leu Cys Ala Lys Pro Lys Gly
110 115 120
Asn Lys Asp Tyr His Leu Gln Thr Cys Cys Gly Ser Leu Ala Tyr
125 130 135
Ala Ala Pro Glu Leu Ile Gln Gly Lys Ser Tyr Leu Gly Ser Glu
140 145 150
Ala Asp Val Trp Ser Met Gly Ile Leu Leu Tyr Val Leu Met Cys
155 160 165
Gly Phe Leu Pro Phe Asp Asp Asp Asn Val Met Ala Leu Tyr Lys
170 175 180

Lys	Ile	Met	Arg	Gly	Lys	Tyr	Asp	Val	Pro	Lys	Trp	Leu	Ser	Pro
				185					190					195
Ser	Ser	Ile	Leu	Leu	Leu	Gln	Gln	Met	Leu	Gln	Val	Asp	Pro	Lys
				200					205					210
Lys	Arg	Ile	Ser	Met	Lys	Asn	Leu	Leu	Asn	His	Pro	Trp	Ile	Met
				215					220					225
Gln	Asp	Tyr	Asn	Tyr	Pro	Val	Glu	Trp	Gln	Ser	Lys	Asn	Pro	Phe
				230					235					240
Ile	His	Leu	Asp	Asp	Asp	Cys	Val	Thr	Glu	Leu	Ser	Val	His	His
				245					250					255
Arg	Asn	Asn	Arg	Gln	Thr	Met	Glu	Asp	Leu	Ile	Ser	Leu	Trp	Gln
				260					265					270
Tyr	Asp	His	Leu	Thr	Ala	Thr	Tyr	Leu	Leu	Leu	Leu	Ala	Lys	Lys
				275					280					285
Ala	Arg	Gly	Lys	Pro	Val	Arg	Leu	Arg	Leu	Ser	Ser	Phe	Ser	Cys
				290					295					300
Gly	Gln	Ala	Ser	Ala	Thr	Pro	Phe	Thr	Asp	Ile	Lys	Ser	Asn	Asn
				305					310					315
Trp	Ser	Leu	Glu	Asp	Val	Thr	Ala	Ser	Asp	Lys	Asn	Tyr	Val	Ala
				320					325					330
Gly	Leu	Ile	Asp	Tyr	Asp	Trp	Cys	Glu	Asp	Asp	Leu	Ser	Thr	Gly
				335					340					345
Ala	Ala	Thr	Pro	Arg	Thr	Ser	Gln	Phe	Thr	Lys	Tyr	Trp	Thr	Glu
				350					355					360
Ser	Asn	Gly	Val	Glu	Ser	Lys	Ser	Leu	Thr	Pro	Ala	Leu	Cys	Arg
				365					370					375
Thr	Pro	Ala	Asn	Lys	Leu	Lys	Asn	Lys	Glu	Asn	Val	Tyr	Thr	Pro
				380					385					390
Lys	Ser	Ala	Val	Lys	Asn	Glu	Glu	Tyr	Phe	Met	Phe	Pro	Glu	Pro
				395					400					405
Lys	Thr	Pro	Val	Asn	Lys	Asn	Gln	His	Lys	Arg	Glu	Ile	Leu	Thr
				410					415					420
Thr	Pro	Asn	Arg	Tyr	Thr	Thr	Pro	Ser	Lys	Ala	Arg	Asn	Gln	Cys
				425					430					435
Leu	Lys	Glu	Thr	Pro	Ile	Lys	Ile	Pro	Val	Asn	Ser	Thr	Gly	Thr
				440					445					450
Asp	Lys	Leu	Met	Thr	Gly	Val	Ile	Ser	Pro	Glu	Arg	Arg	Cys	Arg
				455					460					465
Ser	Val	Glu	Leu	Asp	Leu	Asn	Gln	Ala	His	Met	Glu	Glu	Thr	Pro
				470					475					480
Lys	Arg	Lys	Gly	Ala	Lys	Val	Phe	Gly	Ser	Leu	Glu	Arg	Gly	Leu
				485					490					495
Asp	Lys	Val	Ile	Thr	Val	Leu	Thr	Arg	Ser	Lys	Arg	Lys	Gly	Ser
				500					505					510
Ala	Arg	Asp	Gly	Pro	Arg	Arg	Leu	Lys	Leu	His	Tyr	Asn	Val	Thr
				515					520					525
Thr	Thr	Arg	Leu	Val	Asn	Pro	Asp	Gln	Leu	Leu	Asn	Glu	Ile	Met
				530					535					540
Ser	Ile	Leu	Pro	Lys	Lys	His	Val	Asp	Phe	Val	Gln	Lys	Gly	Tyr
				545					550					555
Thr	Leu	Lys	Cys	Gln	Thr	Gln	Ser	Asp	Phe	Gly	Lys	Val	Thr	Met
				560					565					570
Gln	Phe	Glu	Leu	Glu	Val	Cys	Gln	Leu	Gln	Lys	Pro	Asp	Val	Val
				575					580					585
Gly	Ile	Arg	Arg	Gln	Arg	Leu	Lys	Gly	Asp	Ala	Trp	Val	Tyr	Lys
				590					595					600
Arg	Leu	Val	Glu	Asp	Ile	Leu	Ser	Ser	Cys	Lys	Val			
				605					610					

<210> 20

<211> 311

<212> PRT

<213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7525773CD1

<400> 20

Met	Leu	Ser	Glu	Val	Leu	Leu	Val	Ser	Ala	Pro	Gly	Lys	Val	Ile	1	5	10	15
Leu	His	Gly	Glu	His	Ala	Val	Val	His	Gly	Lys	Val	Ala	Leu	Ala	20	25	30	
Val	Ser	Leu	Asn	Leu	Arg	Thr	Phe	Leu	Arg	Leu	Gln	Pro	His	Ser	35	40	45	
Asn	Gly	Lys	Val	Asp	Leu	Ser	Leu	Pro	Asn	Ile	Gly	Ile	Lys	Arg	50	55	60	
Ala	Trp	Asp	Val	Ala	Arg	Leu	Gln	Ser	Leu	Asp	Thr	Ser	Phe	Leu	65	70	75	
Glu	Gln	Gly	Asp	Val	Thr	Thr	Pro	Thr	Ser	Glu	Gln	Val	Glu	Lys	80	85	90	
Leu	Lys	Glu	Val	Ala	Gly	Leu	Pro	Asp	Asp	Cys	Ala	Val	Thr	Glu	95	100	105	
Arg	Leu	Ala	Val	Leu	Ala	Phe	Leu	Tyr	Leu	Tyr	Leu	Ser	Ile	Cys	110	115	120	
Arg	Lys	Gln	Arg	Trp	Thr	Lys	Glu	Asp	Leu	Glu	Leu	Ile	Asn	Lys	125	130	135	
Trp	Ala	Phe	Gln	Gly	Glu	Arg	Met	Ile	His	Gly	Asn	Pro	Ser	Gly	140	145	150	
Val	Asp	Asn	Ala	Asp	Ser	Thr	Trp	Gly	Gly	Ala	Leu	Arg	Tyr	His	155	160	165	
Gln	Gly	Lys	Ile	Ser	Ser	Leu	Lys	Arg	Ser	Pro	Ala	Leu	Gln	Ile	170	175	180	
Leu	Leu	Thr	Asn	Ala	Lys	Val	Pro	Arg	Asn	Thr	Arg	Ala	Leu	Val	185	190	195	
Ala	Gly	Val	Arg	Asn	Arg	Leu	Leu	Lys	Phe	Pro	Glu	Ile	Val	Ala	200	205	210	
Pro	Leu	Leu	Thr	Ser	Ile	Asp	Ala	Ile	Ser	Leu	Glu	Cys	Glu	Arg	215	220	225	
Val	Leu	Gly	Glu	Met	Gly	Glu	Ala	Pro	Ala	Pro	Glu	Gln	Tyr	Leu	230	235	240	
Val	Leu	Glu	Glu	Leu	Ile	Asp	Met	Asn	Gln	His	His	Leu	Asn	Ala	245	250	255	
Leu	Gly	Val	Gly	His	Ala	Ser	Leu	Asp	Gln	Leu	Cys	Gln	Val	Thr	260	265	270	
Arg	Ala	Arg	Gly	Leu	His	Ser	Lys	Leu	Thr	Gly	Ala	Gly	Gly	Gly	275	280	285	
Gly	Cys	Gly	Ile	Thr	Leu	Leu	Lys	Pro	Gly	Ile	Pro	Gly	Gly	Trp	290	295	300	
Ser	Ser	Gln	Lys	Trp	Arg	Pro	Arg	Ser	Arg	Pro					305	310		

<210> 21
 <211> 206
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7525861CD1

<400> 21

Met	Ser	Ser	Pro	Arg	Gly	Phe	Arg	Ala	Glu	Pro	Val	Asn	Asp	Tyr	1	5	10	15
Glu	Gly	Asn	Asp	Ser	Glu	Ala	Glu	Asp	Leu	Asn	Phe	Arg	Glu	Thr	20	25	30	
Leu	Pro	Ser	Ser	Ser	Gln	Glu	Asn	Thr	Pro	Arg	Ser	Lys	Val	Phe	35	40	45	

Glu	Asn	Lys	Val	Asn	Ser	Glu	Lys	Val	Lys	Leu	Ser	Leu	Arg	Asn	
				50					55					60	
Phe	Pro	His	Asn	Asp	Tyr	Glu	Asp	Val	Phe	Glu	Glu	Pro	Ser	Glu	
				65					70					75	
Ser	Gly	Ser	Asp	Pro	Ser	Met	Trp	Thr	Ala	Arg	Gly	Pro	Phe	Arg	
				80					85					90	
Arg	Gly	Arg	Trp	Ser	Ser	Glu	Asp	Glu	Glu	Ala	Ala	Gly	Pro	Ser	
				95					100					105	
Gln	Ala	Leu	Ser	Pro	Leu	Leu	Ser	Asp	Thr	Arg	Lys	Ile	Val	Ser	
				110					115					120	
Glu	Gly	Glu	Leu	Asp	Gln	Leu	Ala	Gln	Ile	Arg	Pro	Leu	Ile	Phe	
				125					130					135	
Asn	Phe	His	Glu	Gln	Thr	Ala	Ile	Lys	Asp	Cys	Leu	Lys	Ile	Leu	
				140					145					150	
Glu	Glu	Lys	Thr	Ala	Ala	Tyr	Asp	Ile	Met	Gln	Glu	Phe	Met	Phe	
				155					160					165	
Asn	Ile	Met	Asp	Ile	Val	Ala	Gln	Met	Arg	Glu	Gln	Arg	Ser	Gly	
				170					175					180	
Met	Val	Gln	Thr	Lys	Glu	Gln	Tyr	His	Phe	Cys	Tyr	Asp	Ile	Val	
				185					190					195	
Leu	Glu	Val	Leu	Arg	Lys	Leu	Leu	Thr	Leu	Asp					
				200					205						

<210> 22

<211> 1125

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2509577CD1

<400> 22

Met	Pro	Asp	Gln	Asp	Lys	Lys	Val	Lys	Thr	Thr	Glu	Lys	Ser	Thr	
1				5					10					15	
Asp	Lys	Gln	Gln	Glu	Ile	Thr	Ile	Arg	Asp	Tyr	Ser	Asp	Leu	Lys	
				20					25					30	
Arg	Leu	Arg	Cys	Leu	Leu	Asn	Val	Gln	Ser	Ser	Lys	Gln	Gln	Leu	
				35					40					45	
Pro	Ala	Ile	Asn	Phe	Asp	Ser	Ala	Gln	Asn	Ser	Met	Thr	Lys	Ser	
				50					55					60	
Glu	Pro	Ala	Ile	Arg	Ala	Gly	Gly	His	Arg	Ala	Arg	Gly	Gln	Trp	
				65					70					75	
His	Glu	Ser	Thr	Glu	Ala	Val	Glu	Leu	Glu	Asn	Phe	Ser	Ile	Asn	
				80					85					90	
Tyr	Lys	Asn	Glu	Arg	Asn	Phe	Ser	Lys	His	Pro	Gln	Arg	Lys	Leu	
				95					100					105	
Phe	Gln	Glu	Ile	Phe	Thr	Ala	Leu	Val	Lys	Asn	Arg	Leu	Ile	Ser	
				110					115					120	
Arg	Glu	Trp	Val	Asn	Arg	Ala	Pro	Ser	Ile	His	Phe	Leu	Arg	Val	
				125					130					135	
Leu	Ile	Cys	Leu	Arg	Leu	Leu	Met	Arg	Asp	Pro	Cys	Tyr	Gln	Glu	
				140					145					150	
Ile	Leu	His	Ser	Leu	Gly	Gly	Ile	Glu	Asn	Leu	Ala	Gln	Tyr	Met	
				155					160					165	
Glu	Ile	Val	Ala	Asn	Glu	Tyr	Leu	Gly	Tyr	Gly	Glu	Glu	Gln	His	
				170					175					180	
Thr	Val	Asp	Lys	Leu	Val	Asn	Met	Thr	Tyr	Ile	Phe	Gln	Lys	Leu	
				185					190					195	
Ala	Ala	Val	Lys	Asp	Gln	Arg	Glu	Trp	Val	Thr	Thr	Ser	Gly	Ala	
				200					205					210	
His	Lys	Thr	Leu	Val	Asn	Leu	Leu	Gly	Ala	Arg	Asp	Thr	Asn	Val	
				215					220					225	
Leu	Leu	Gly	Ser	Leu	Leu	Ala	Leu	Ala	Ser	Leu	Ala	Glu	Ser	Gln	

	230		235		240
Glu Cys Arg Glu	Lys Ile Ser Glu Leu	Asn Ile Val Glu Asn	Leu		
	245		250		255
Leu Met Ile Leu	His Glu Tyr Asp Leu	Leu Ser Lys Arg Leu	Thr		
	260		265		270
Ala Glu Leu Leu	Arg Leu Leu Cys Ala	Glu Pro Gln Val Lys	Glu		
	275		280		285
Gln Val Lys Leu	Tyr Glu Gly Ile Pro	Val Leu Leu Ser Leu	Leu		
	290		295		300
His Ser Asp His	Leu Lys Leu Leu Trp	Ser Ile Val Trp Ile	Leu		
	305		310		315
Val Gln Val Cys	Glu Asp Pro Glu Thr	Ser Val Glu Ile Arg	Ile		
	320		325		330
Trp Gly Gly Ile	Lys Gln Leu Leu His	Ile Leu Gln Gly Asp	Arg		
	335		340		345
Asn Phe Val Ser	Asp His Ser Ser Ile	Gly Ser Leu Ser Ser	Ala		
	350		355		360
Asn Ala Ala Gly	Arg Ile Gln Gln Leu	His Leu Ser Glu Asp	Leu		
	365		370		375
Ser Pro Arg Glu	Ile Gln Glu Asn Thr	Phe Ser Leu Gln Ala	Ala		
	380		385		390
Cys Cys Ala Ala	Leu Thr Glu Leu Val	Leu Asn Asp Thr Asn	Ala		
	395		400		405
His Gln Val Val	Gln Glu Asn Gly Val	Tyr Thr Ile Ala Lys	Leu		
	410		415		420
Ile Leu Pro Asn	Lys Gln Lys Asn Ala	Ala Lys Ser Asn Leu	Leu		
	425		430		435
Gln Cys Tyr Ala	Phe Arg Ala Leu Arg	Phe Leu Phe Ser Met	Glu		
	440		445		450
Arg Asn Arg Pro	Leu Phe Lys Arg Leu	Phe Pro Thr Asp Leu	Phe		
	455		460		465
Glu Ile Phe Ile	Asp Ile Gly His Tyr	Val Arg Asp Ile Ser	Ala		
	470		475		480
Tyr Glu Glu Leu	Val Ser Lys Leu Asn	Leu Leu Val Glu Asp	Glu		
	485		490		495
Leu Lys Gln Ile	Ala Glu Asn Ile Glu	Ser Ile Asn Gln Asn	Lys		
	500		505		510
Ala Pro Leu Lys	Tyr Ile Gly Asn Tyr	Ala Ile Leu Asp His	Leu		
	515		520		525
Gly Ser Gly Ala	Phe Gly Cys Val Tyr	Lys Val Arg Lys His	Ser		
	530		535		540
Gly Gln Asn Leu	Leu Ala Met Lys Glu	Val Asn Leu His Asn	Pro		
	545		550		555
Ala Phe Gly Lys	Asp Lys Lys Asp Arg	Asp Ser Ser Val Arg	Asn		
	560		565		570
Ile Val Ser Glu	Leu Thr Ile Ile Lys	Glu Gln Leu Tyr His	Pro		
	575		580		585
Asn Ile Val Arg	Tyr Tyr Lys Thr Phe	Leu Glu Asn Asp Arg	Leu		
	590		595		600
Tyr Ile Val Met	Glu Leu Ile Glu Gly	Ala Pro Leu Gly Glu	His		
	605		610		615
Phe Ser Ser Leu	Lys Glu Lys His His	His Phe Thr Glu Glu	Arg		
	620		625		630
Leu Trp Lys Ile	Phe Ile Gln Leu Cys	Leu Ala Leu Arg Tyr	Leu		
	635		640		645
His Lys Glu Lys	Arg Ile Val His Arg	Asp Leu Thr Pro Asn	Asn		
	650		655		660
Ile Met Leu Gly	Asp Lys Asp Lys Val	Thr Val Thr Asp Phe	Gly		
	665		670		675
Leu Ala Lys Gln	Lys Gln Glu Asn Ser	Lys Leu Thr Ser Val	Val		
	680		685		690
Gly Thr Ile Leu	Tyr Ser Cys Pro Glu	Val Leu Lys Ser Glu	Pro		
	695		700		705
Tyr Gly Glu Lys	Ala Asp Val Trp Ala	Val Gly Cys Ile Leu	Tyr		

Gln Met Ala Thr	710	Leu Ser Pro Pro Phe	715	Tyr Ser Thr Asn Met	720
Ser Leu Ala Thr	725	Lys Ile Val Glu Ala	730	Val Tyr Glu Pro Val	735
Glu Gly Ile Tyr	740	Ser Glu Lys Val Thr	745	Asp Thr Ile Ser Arg	750
Leu Thr Pro Asp	755	Ala Glu Ala Arg Pro	760	Asp Ile Val Glu Val	765
Ser Met Ile Ser	770	Asp Val Met Met Lys	775	Tyr Leu Asp Asn Leu	780
Thr Ser Gln Leu	785	Ser Leu Glu Lys Lys	790	Leu Glu Arg Glu Arg	795
Arg Thr Gln Arg	800	Tyr Phe Met Glu Ala	805	Asn Arg Asn Thr Val	810
Cys His His Glu	815	Leu Ala Val Leu Ser	820	His Glu Thr Phe Glu	825
Ala Ser Leu Ser	830	Ser Ser Ser Ser Gly	835	Ala Ala Ser Leu Lys	840
Glu Leu Ser Glu	845	Ser Ala Asp Leu Pro	850	Pro Glu Gly Phe Gln	855
Ser Tyr Gly Lys	860	Asp Glu Asp Arg Ala	865	Cys Asp Glu Ile Leu	870
Asp Asp Asn Phe	875	Asn Leu Glu Asn Ala	880	Glu Lys Asp Thr Tyr	885
Glu Val Asp Asp	890	Glu Leu Asp Ile Ser	895	Asp Asn Ser Ser Ser	900
Ser Ser Ser Pro	905	Leu Lys Glu Ser Thr	910	Phe Asn Ile Leu Lys	915
Ser Phe Ser Ala	920	Ser Gly Gly Glu Arg	925	Gln Ser Gln Thr Arg	930
Phe Thr Gly Gly	935	Thr Gly Ser Arg Pro	940	Arg Pro Gly Pro Gln	945
Gly Thr Phe Leu	950	Trp Gln Ala Ser Ala	955	Gly Ile Ala Val Ser	960
Arg Lys Val Arg	965	Gln Ile Ser Asp Pro	970	Ile Gln Gln Ile Leu	975
Gln Leu His Lys	980	Ile Ile Tyr Ile Thr	985	Gln Leu Pro Pro Ala	990
His His Asn Leu	995	Lys Arg Arg Val Ile	1000	Glu Arg Phe Lys Lys	1005
Leu Phe Ser Gln	1010	Gln Ser Asn Pro Cys	1015	Asn Leu Lys Ser Glu	1020
Lys Lys Leu Ser	1025	Gln Gly Ser Pro Glu	1030	Pro Ile Glu Pro Asn	1035
Phe Thr Ala Asp	1040	Tyr His Leu Leu His	1045	Arg Ser Ser Gly Gly	1050
Ser Leu Ser Pro	1055	Asn Asp Pro Thr Gly	1060	Leu Pro Thr Ser Ile	1065
Leu Glu Glu Gly	1070	Ile Thr Tyr Glu Gln	1075	Met Gln Thr Val Ile	1080
Glu Val Leu Glu	1085	Glu Ser Gly Tyr Tyr	1090	Asn Phe Thr Ser Asn	1095
Tyr His Ser Tyr	1100	Pro Trp Gly Thr Lys	1105	Asn His Pro Thr Lys	1110
	1115		1120		1125

<210> 23

<211> 888

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7505222CD1

<400> 23

Met	Gln	Ile	Val	Gly	Ser	Pro	Gly	Pro	Gly	Ala	Ala	Trp	Pro	Val	1	5	10	15
Lys	Arg	Val	Val	Phe	Pro	Asn	Gly	Glu	Gln	Phe	Leu	Leu	Ser	Val	20	25	30	35
Ala	Thr	Lys	Lys	Val	Ile	Cys	Leu	Cys	Leu	Gly	Lys	Ala	Gly	Arg	40	45	50	55
Lys	Val	Leu	Ala	Lys	Lys	Leu	Ser	Pro	Leu	Glu	Thr	Met	Asp	Lys	60	65	70	75
Tyr	Asp	Val	Ile	Lys	Ala	Ile	Gly	Gln	Gly	Ala	Phe	Gly	Lys	Ala	80	85	90	95
Tyr	Leu	Ala	Lys	Gly	Lys	Ser	Asp	Ser	Lys	His	Cys	Val	Ile	Lys	100	105	110	115
Glu	Ile	Asn	Phe	Glu	Lys	Met	Pro	Ile	Gln	Glu	Lys	Glu	Ala	Ser	120	125	130	135
Lys	Lys	Glu	Val	Ile	Leu	Leu	Glu	Lys	Met	Lys	His	Pro	Asn	Ile	140	145	150	155
Val	Ala	Phe	Phe	Asn	Ser	Phe	Gln	Glu	Asn	Gly	Arg	Leu	Phe	Ile	160	165	170	175
Val	Met	Glu	Tyr	Cys	Asp	Gly	Gly	Asp	Leu	Met	Lys	Arg	Ile	Asn	180	185	190	195
Arg	Gln	Arg	Gly	Val	Leu	Phe	Ser	Glu	Asp	Gln	Ile	Leu	Gly	Trp	200	205	210	215
Phe	Val	Gln	Ile	Ser	Leu	Gly	Leu	Lys	His	Ile	His	Asp	Arg	Lys	220	225	230	235
Ile	Leu	His	Arg	Asp	Ile	Lys	Ala	Gln	Asn	Ile	Phe	Leu	Ser	Lys	240	245	250	255
Asn	Gly	Met	Val	Ala	Lys	Leu	Gly	Asp	Phe	Gly	Ile	Ala	Arg	Val	260	265	270	275
Leu	Asn	Asn	Ser	Met	Glu	Leu	Ala	Arg	Thr	Cys	Ile	Gly	Thr	Pro	280	285	290	295
Tyr	Tyr	Leu	Ser	Pro	Glu	Ile	Cys	Gln	Asn	Lys	Pro	Tyr	Asn	Asn	300	305	310	315
Lys	Thr	Asp	Ile	Trp	Ser	Leu	Gly	Cys	Val	Leu	Tyr	Glu	Leu	Cys	320	325	330	335
Thr	Leu	Lys	His	Pro	Phe	Glu	Gly	Asn	Asn	Leu	Gln	Gln	Leu	Val	340	345	350	355
Leu	Lys	Ile	Cys	Gln	Ala	His	Phe	Ala	Pro	Ile	Ser	Pro	Gly	Phe	360	365	370	375
Ser	Arg	Glu	Leu	His	Ser	Leu	Ile	Ser	Gln	Leu	Phe	Gln	Val	Ser	380	385	390	395
Pro	Arg	Asp	Arg	Pro	Ser	Ile	Asn	Ser	Ile	Leu	Lys	Arg	Pro	Phe	400	405	410	415
Leu	Glu	Asn	Leu	Ile	Pro	Lys	Tyr	Leu	Thr	Pro	Glu	Val	Ile	Gln	420	425	430	435
Glu	Glu	Phe	Ser	His	Met	Leu	Ile	Cys	Arg	Ala	Gly	Ala	Pro	Ala	440	445	450	455
Ser	Arg	His	Ala	Gly	Lys	Val	Val	Gln	Lys	Cys	Lys	Ile	Gln	Lys	460	465	470	475
Val	Arg	Phe	Gln	Gly	Lys	Cys	Pro	Pro	Arg	Ser	Arg	Ile	Ser	Val	480	485	490	495
Pro	Ile	Lys	Arg	Asn	Ala	Ile	Leu	His	Arg	Asn	Glu	Trp	Arg	Pro	500	505	510	515
Pro	Ala	Gly	Ala	Gln	Lys	Ala	Arg	Ser	Ile	Lys	Met	Ile	Glu	Arg	520	525	530	535
Pro	Lys	Ile	Ala	Ala	Val	Cys	Gly	His	Tyr	Asp	Tyr	Tyr	Tyr	Ala	540	545	550	555
Gln	Leu	Asp	Met	Leu	Arg	Arg	Arg	Ala	His	Lys	Pro	Ser	Tyr	His	560	565	570	575
Pro	Ile	Pro	Gln	Glu	Asn	Thr	Gly	Val	Glu	Asp	Tyr	Gly	Gln	Glu	580	585	590	595
Thr	Arg	His	Gly	Pro	Ser	Pro	Ser	Gln	Trp	Pro	Ala	Glu	Tyr	Leu	600	605	610	615

	455		460		465
Gln Arg Lys Phe	Glu Ala Gln Gln Tyr	Lys Leu Lys Val Glu	Lys		
	470		475		480
Gln Leu Gly Leu	Arg Pro Ser Ser Ala	Glu Pro Asn Tyr Asn	Gln		
	485		490		495
Arg Gln Glu Leu	Arg Ser Asn Gly Glu	Glu Pro Arg Phe Gln	Glu		
	500		505		510
Leu Pro Phe Arg	Lys Asn Glu Met Lys	Glu Gln Glu Tyr Trp	Lys		
	515		520		525
Gln Leu Glu Glu	Ile Arg Gln Gln Tyr	His Asn Asp Met Lys	Glu		
	530		535		540
Ile Arg Lys Lys	Met Gly Arg Glu Pro	Glu Glu Asn Ser Lys	Ile		
	545		550		555
Ser His Lys Thr	Tyr Leu Val Lys Lys	Ser Asn Leu Pro Val	His		
	560		565		570
Gln Asp Ala Ser	Glu Gly Glu Ala Pro	Val Gln Asp Ile Glu	Lys		
	575		580		585
Asp Leu Lys Gln	Met Arg Leu Gln Asn	Thr Lys Glu Ser Lys	Asn		
	590		595		600
Pro Glu Gln Lys	Tyr Lys Ala Lys Gly	Val Lys Phe Glu Ile	Asn		
	605		610		615
Leu Asp Lys Cys	Ile Ser Asp Glu Asn	Ile Leu Gln Glu Glu	Glu		
	620		625		630
Ala Met Asp Ile	Pro Asn Glu Thr Leu	Thr Phe Glu Asp Gly	Met		
	635		640		645
Lys Phe Lys Glu	Tyr Glu Cys Val Lys	Glu His Gly Asp Tyr	Thr		
	650		655		660
Asp Lys Ala Phe	Glu Lys Leu His Cys	Pro Glu Ala Gly Phe	Ser		
	665		670		675
Thr Gln Thr Val	Ala Ala Val Gly Asn	Arg Arg Gln Trp Asp	Gly		
	680		685		690
Gly Ala Pro Gln	Thr Leu Leu Gln Met	Met Ala Val Ala Asp	Ile		
	695		700		705
Thr Ser Thr Cys	Pro Thr Gly Pro Asp	Asn Gly Gln Val Ile	Val		
	710		715		720
Ile Glu Gly Ile	Pro Gly Asn Arg Lys	Gln Trp Arg His Glu	Ala		
	725		730		735
Pro Gly Thr Leu	Met Ser Val Leu Ala	Ala Ala His Leu Thr	Ser		
	740		745		750
Ser Ser Phe Ser	Ala Asp Glu Glu Phe	Ala Met Gly Thr Leu	Lys		
	755		760		765
Gln Trp Leu Pro	Lys Glu Glu Asp Glu	Gly Lys Val Glu Met	Val		
	770		775		780
Ser Gly Ile Glu	Val Asp Glu Glu Gln	Leu Glu Pro Arg Ser	Asp		
	785		790		795
Asp Asp Asp Thr	Asn Phe Glu Glu Ser	Glu Asp Glu Leu Arg	Asp		
	800		805		810
Glu Val Val Glu	Tyr Leu Glu Lys Leu	Ala Thr Phe Lys Gly	Glu		
	815		820		825
Glu Lys Thr Glu	Glu Ala Ser Ser Thr	Ser Lys Asp Ser Arg	Lys		
	830		835		840
Ser Arg Glu Arg	Glu Gly Ile Ser Met	Gln Lys Ser Glu Glu	Leu		
	845		850		855
Arg Glu Gly Leu	Glu Asn Ile Ser Thr	Thr Ser Asn Asp His	Ile		
	860		865		870
Cys Ile Thr Asp	Glu Asp Gln Gly Thr	Ser Thr Thr Ser Gln	Asn		
	875		880		885
Ile Gln Val					

<210> 24
 <211> 487
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7524408CD1

<400> 24

Met	Gly	Arg	Ile	Gly	Ile	Ser	Cys	Leu	Phe	Pro	Ala	Ser	Trp	His	1	5	10	15
Phe	Ser	Ile	Ser	Pro	Val	Gly	Cys	Pro	Arg	Ile	Leu	Asn	Thr	Asn	20	25	30	35
Leu	Arg	Gln	Ile	Met	Val	Ile	Ser	Val	Leu	Ala	Ala	Ala	Val	Ser	40	45	50	55
Leu	Leu	Tyr	Phe	Ser	Val	Val	Ile	Ile	Arg	Asn	Lys	Tyr	Gly	Arg	60	65	70	75
Leu	Thr	Arg	Asp	Lys	Lys	Phe	Gln	Arg	Tyr	Leu	Ala	Arg	Val	Thr	80	85	90	95
Asp	Ile	Glu	Ala	Thr	Asp	Thr	Asn	Asn	Pro	Asn	Val	Asn	Tyr	Gly	100	105	110	115
Ile	Val	Val	Asp	Cys	Gly	Ser	Ser	Gly	Ser	Arg	Val	Phe	Val	Tyr	120	125	130	135
Cys	Trp	Pro	Arg	His	Asn	Gly	Asn	Pro	His	Asp	Leu	Leu	Asp	Ile	140	145	150	155
Arg	Gln	Met	Arg	Asp	Lys	Asn	Arg	Lys	Pro	Val	Val	Met	Lys	Ile	160	165	170	175
Lys	Pro	Gly	Ile	Ser	Glu	Phe	Ala	Thr	Ser	Pro	Glu	Lys	Val	Ser	180	185	190	195
Asp	Tyr	Ile	Ser	Pro	Leu	Leu	Asn	Phe	Ala	Ala	Glu	His	Val	Pro	200	205	210	215
Arg	Ala	Lys	His	Lys	Glu	Thr	Pro	Leu	Tyr	Ile	Leu	Cys	Thr	Ala	220	225	230	235
Gly	Met	Arg	Ile	Leu	Pro	Glu	Ser	Gln	Gln	Lys	Ala	Ile	Leu	Glu	240	245	250	255
Asp	Leu	Leu	Thr	Asp	Ile	Pro	Val	His	Phe	Asp	Phe	Leu	Phe	Ser	260	265	270	275
Asp	Ser	His	Ala	Glu	Val	Ile	Ser	Gly	Lys	Gln	Glu	Gly	Val	Tyr	280	285	290	295
Ala	Trp	Ile	Gly	Ile	Asn	Phe	Val	Leu	Gly	Arg	Phe	Glu	His	Ile	300	305	310	315
Glu	Asp	Asp	Asp	Glu	Ala	Val	Val	Glu	Val	Asn	Ile	Pro	Gly	Ser	320	325	330	335
Val	Ser	Ser	Glu	Ala	Ile	Val	Arg	Lys	Arg	Thr	Ala	Gly	Ile	Leu	340	345	350	355
Asp	Met	Gly	Gly	Val	Leu	Thr	Gln	Ile	Ala	Tyr	Glu	Val	Pro	Lys	360	365	370	375
Thr	Ala	Ser	Phe	Ala	Ser	Ser	Gln	Gln	Glu	Glu	Val	Ala	Lys	Asn	380	385	390	395
Leu	Leu	Ala	Glu	Phe	Asn	Leu	Gly	Cys	Asp	Val	His	Gln	Thr	Glu	400	405	410	415
His	Val	Tyr	Arg	Val	Tyr	Val	Ala	Thr	Phe	Phe	Gly	Phe	Gly	Gly	420	425	430	435
Asn	Ala	Ala	Arg	Gln	Arg	Tyr	Glu	Asp	Arg	Ile	Phe	Ala	Asn	Thr	440	445	450	455
Ile	Gln	Lys	Asn	Arg	Leu	Leu	Gly	Lys	Gln	Thr	Gly	Leu	Thr	Pro	460	465	470	475
Asp	Met	Pro	Tyr	Leu	Asp	Pro	Cys	Leu	Pro	Leu	Asp	Ile	Lys	Asp	480	485	490	495
Glu	Ile	Gln	Gln	Asn	Gly	Gln	Thr	Ile	Tyr	Leu	Arg	Gly	Thr	Gly	500	505	510	515
Asp	Phe	Asp	Leu	Cys	Arg	Glu	Thr	Ile	Gln	Pro	Phe	Met	Asn	Lys	520	525	530	535
Thr	Asn	Glu	Thr	Gln	Thr	Ser	Leu	Asn	Gly	Val	Tyr	Gln	Pro	Pro	540	545	550	555
Ile	His	Phe	Gln	Asn	Ser	Glu	Phe	Tyr	Gly	Phe	Ser	Glu	Phe	Tyr	560	565	570	575
Tyr	Cys	Thr	Glu	Asp	Val	Leu	Arg	Met	Gly	Gly	Asp	Tyr	Asn	Ala	580	585	590	595

Ala Lys Phe Thr	440	Ala Ala Lys Asp	445	Tyr Cys Ala Thr Lys	450
Ser Ile Leu Arg	455	Glu Arg Phe Asp Arg	460	Gly Leu Tyr Ala Ser	465
Ala Asp Leu His	470	Arg Leu Lys	475		480
	485				

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Leu Ser Leu Pro Arg	Arg Gly Arg Gly	Cys Arg Ser Gly Asn	Arg
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Lys Ser Leu Val Val	Gly Thr Pro Ser	Pro Thr Leu Ser Arg	Pro
	35	40	45
Leu Ser Pro Leu Ser	Val Pro Thr Ala	Gly Ser Ser Pro Leu	Asp
	50	55	60
Ser Pro Arg Asn Phe	Ser Ala Ala Ser	Ala Leu Asn Phe Pro	Phe
	65	70	75
Ala Arg Arg Ala Asp	Gly Arg Arg Trp	Ser Leu Ala Ser Leu	Pro
	80	85	90
Ser Ser Gly Tyr Gly	Thr Asn Thr Pro	Ser Ser Thr Leu Ser	Ser
	95	100	105
Ser Ser Ser Ser Arg	Glu Arg Leu His	Gln Leu Pro Phe Gln	Pro
	110	115	120
Thr Pro Asp Glu Leu	His Phe Leu Ser	Lys His Phe Arg Ser	Ser
	125	130	135
Glu Asn Val Leu Asp	Glu Glu Gly Gly	Arg Ser Pro Arg Leu	Arg
	140	145	150
Pro Arg Ser Arg Ser	Leu Ser Pro Gly	Arg Ala Thr Gly Thr	Phe
	155	160	165
Asp Asn Glu Ile Val	Met Met Asn His	Val Tyr Arg Glu Arg	Phe
	170	175	180
Pro Lys Ala Thr Ala	Gln Met Glu Gly	Arg Leu Gln Glu Phe	Leu
	185	190	195
Thr Ala Tyr Ala Pro	Gly Ala Arg Leu	Ala Leu Ala Asp Gly	Val
	200	205	210
Leu Gly Phe Ile His	His Gln Ile Val	Glu Leu Ala Arg Asp	Cys
	215	220	225
Leu Ala Lys Ser Gly	Glu Asn Leu Val	Thr Ser Arg Tyr Phe	Leu
	230	235	240
Glu Met Gln Glu Lys	Leu Glu Arg Leu	Leu Gln Asp Ala His	Glu
	245	250	255
Arg Ser Asp Ser Glu	Glu Val Ser Phe	Ile Val Gln Leu Val	Arg
	260	265	270
Lys Leu Leu Ile Ile	Ile Ser Arg Pro	Ala Arg Leu Leu Glu	Cys
	275	280	285
Leu Glu Phe Asp Pro	Glu Glu Phe Tyr	His Leu Leu Glu Ala	Ala
	290	295	300
Glu Gly His Ala Arg	Glu Gly Gln Gly	Ile Lys Thr Asp Leu	Pro
	305	310	315
Gln Tyr Ile Ile Gly	Gln Leu Gly Leu	Ala Lys Asp Pro Leu	Glu
	320	325	330
Glu Met Val Pro Leu	Ser His Leu Glu	Glu Glu Gln Pro Pro	Ala
	335	340	345

Pro	Glu	Ser	Pro	Glu	Ser	Arg	Ala	Leu	Val	Gly	Gln	Ser	Arg	Arg	
				350					355					360	
Lys	Pro	Cys	Glu	Ser	Asp	Phe	Glu	Thr	Ile	Lys	Leu	Ile	Ser	Asn	
				365					370					375	
Gly	Ala	Tyr	Gly	Ala	Val	Tyr	Leu	Val	Arg	His	Arg	Asp	Thr	Arg	
				380					385					390	
Gln	Arg	Phe	Ala	Ile	Lys	Lys	Ile	Asn	Lys	Gln	Asn	Leu	Ile	Leu	
				395					400					405	
Arg	Asn	Gln	Val	Gln	Gln	Val	Phe	Val	Glu	Arg	Asp	Ile	Leu	Thr	
				410					415					420	
Phe	Ala	Glu	Asn	Pro	Phe	Val	Val	Ser	Met	Phe	Cys	Ser	Phe	Glu	
				425					430					435	
Thr	Arg	Arg	His	Leu	Cys	Met	Val	Met	Glu	Tyr	Val	Glu	Gly	Gly	
				440					445					450	
Asp	Cys	Ala	Thr	Leu	Leu	Lys	Asn	Met	Gly	Pro	Leu	Pro	Val	Asp	
				455					460					465	
Met	Ala	Arg	Leu	Tyr	Phe	Ala	Glu	Thr	Val	Leu	Ala	Leu	Glu	Tyr	
				470					475					480	
Leu	His	Asn	Tyr	Gly	Ile	Val	His	Arg	Asp	Leu	Lys	Pro	Asp	Asn	
				485					490					495	
Leu	Leu	Ile	Thr	Ser	Leu	Gly	His	Ile	Lys	Leu	Thr	Asp	Phe	Gly	
				500					505					510	
Leu	Ser	Lys	Ile	Gly	Leu	Met	Ser	Met	Ala	Thr	Asn	Leu	Tyr	Glu	
				515					520					525	
Gly	His	Ile	Glu	Lys	Asp	Ala	Arg	Glu	Phe	Ile	Asp	Lys	Gln	Val	
				530					535					540	
Cys	Gly	Thr	Pro	Glu	Tyr	Ile	Ala	Pro	Glu	Val	Ile	Phe	Arg	Gln	
				545					550					555	
Gly	Tyr	Gly	Lys	Pro	Val	Asp	Trp	Trp	Ala	Met	Gly	Val	Val	Leu	
				560					565					570	
Tyr	Glu	Phe	Leu	Val	Gly	Cys	Val	Pro	Phe	Phe	Gly	Asp	Thr	Pro	
				575					580					585	
Glu	Glu	Leu	Phe	Gly	Gln	Val	Val	Ser	Asp	Glu	Ile	Met	Trp	Pro	
				590					595					600	
Glu	Gly	Asp	Glu	Ala	Leu	Pro	Ala	Asp	Ala	Gln	Asp	Leu	Ile	Thr	
				605					610					615	
Arg	Leu	Leu	Arg	Gln	Ser	Pro	Leu	Asp	Arg	Leu	Gly	Thr	Gly	Gly	
				620					625					630	
Thr	His	Glu	Val	Lys	Gln	His	Pro	Phe	Phe	Leu	Ala	Leu	Asp	Trp	
				635					640					645	
Ala	Gly	Leu	Leu	Arg	His	Lys	Ala	Glu	Phe	Val	Pro	Gln	Leu	Glu	
				650					655					660	
Ala	Glu	Asp	Asp	Thr	Ser	Tyr	Phe	Asp	Thr	Arg	Ser	Glu	Arg	Tyr	
				665					670					675	
Arg	His	Leu	Gly	Ser	Glu	Asp	Asp	Glu	Thr	Asn	Asp	Glu	Glu	Ser	
				680					685					690	
Ser	Thr	Glu	Ile	Pro	Gln	Phe	Ser	Ser	Cys	Ser	His	Arg	Phe	Ser	
				695					700					705	
Lys	Val	Tyr	Ser	Ser	Ser	Glu	Phe	Leu	Ala	Val	Gln	Pro	Thr	Pro	
				710					715					720	
Thr	Phe	Ala	Glu	Arg	Ser	Phe	Ser	Glu	Asp	Arg	Glu	Glu	Gly	Trp	
				725					730					735	
Glu	Arg	Ser	Glu	Val	Asp	Tyr	Gly	Arg	Arg	Leu	Ser	Ala	Asp	Ile	
				740					745					750	
Arg	Leu	Arg	Ser	Trp	Thr	Ser	Ser	Gly	Ser	Ser	Cys	Gln	Ser	Ser	
				755					760					765	
Ser	Ser	Gln	Pro	Glu	Arg	Gly	Pro	Ser	Pro	Ser	Leu	Leu	Asn	Thr	
				770					775					780	
Ile	Ser	Leu	Asp	Thr	Met	Pro	Lys	Phe	Ala	Phe	Ser	Ser	Glu	Asp	
				785					790					795	
Glu	Gly	Val	Gly	Pro	Gly	Pro	Ala	Gly	Pro	Lys	Arg	Pro	Val	Phe	
				800					805					810	
Ile	Leu	Gly	Glu	Pro	Asp	Pro	Pro	Pro	Ala	Ala	Thr	Pro	Val	Met	
				815					820					825	

Pro Lys Pro Ser Ser Leu Ser Ala Asp Thr Ala Ala Leu Ser His	830	835	840
Ala Arg Leu Arg Ser Asn Ser Ile Gly Ala Arg His Ser Thr Pro	845	850	855
Arg Pro Leu Asp Ala Gly Arg Gly Arg Arg Leu Gly Gly Pro Arg	860	865	870
Asp Pro Ala Pro Glu Lys Ser Arg Ala Ser Ser Ser Gly Gly Ser	875	880	885
Gly Gly Gly Ser Gly Gly Arg Val Pro Lys Ser Ala Ser Val Ser	890	895	900
Ala Leu Ser Leu Ile Ile Thr Ala Asp Asp Gly Ser Gly Gly Pro	905	910	915
Leu Met Ser Pro Leu Ser Pro Arg Ser Leu Ser Ser Asn Pro Ser	920	925	930
Ser Arg Asp Ser Ser Pro Ser Arg Asp Pro Ser Pro Val Cys Gly	935	940	945
Ser Leu Arg Pro Pro Ile Val Ile His Ser Ser Gly Lys Lys Tyr	950	955	960
Gly Phe Ser Leu Arg Ala Ile Arg Val Tyr Met Gly Asp Ser Asp	965	970	975
Val Tyr Thr Val His His Val Val Trp Ser Val Glu Asp Gly Ser	980	985	990
Pro Ala Gln Glu Ala Gly Leu Arg Ala Gly Asp Leu Ile Thr His	995	1000	1005
Ile Asn Gly Glu Ser Val Leu Gly Leu Val His Met Asp Val Val	1010	1015	1020
Glu Leu Leu Leu Lys Ser Gly Asn Lys Ile Ser Leu Arg Thr Thr	1025	1030	1035
Ala Leu Glu Asn Thr Ser Ile Lys Val Gly Pro Ala Arg Lys Asn	1040	1045	1050
Val Ala Lys Gly Arg Met Ala Arg Arg Ser Lys Arg Ser Arg Arg	1055	1060	1065
Arg Glu Thr Gln Asp Arg Arg Lys Ser Leu Phe Lys Lys Ile Ser	1070	1075	1080
Lys Gln Thr Ser Val Leu His Thr Ser Arg Ser Phe Ser Ser Gly	1085	1090	1095
Leu His His Ser Leu Ser Ser Ser Glu Ser Leu Pro Gly Ser Pro	1100	1105	1110
Thr His Ser Leu Ser Pro Ser Pro Thr Thr Pro Cys Arg Ser Pro	1115	1120	1125
Ala Pro Asp Val Pro Ala Asp Thr Thr Ala Ser Pro Pro Ser Ala	1130	1135	1140
Ser Pro Ser Ser Ser Ser Pro Ala Ser Pro Ala Ala Ala Gly His	1145	1150	1155
Thr Arg Pro Ser Ser Leu His Gly Leu Ala Ala Lys Leu Gly Pro	1160	1165	1170
Pro Arg Pro Lys Thr Gly Arg Arg Lys Ser Thr Ser Ser Ile Pro	1175	1180	1185
Pro Ser Pro Leu Ala Cys Pro Pro Ile Ser Ala Pro Pro Pro Arg	1190	1195	1200
Ser Pro Ser Pro Leu Pro Gly His Pro Pro Ala Pro Ala Arg Ser	1205	1210	1215
Pro Arg Leu Arg Arg Gly Gln Ser Ala Asp Lys Leu Gly Thr Gly	1220	1225	1230
Glu Arg Leu Asp Gly Glu Ala Gly Arg Arg Thr Arg Gly Pro Glu	1235	1240	1245
Ala Glu Leu Val Val Met Arg Arg Leu His Leu Ser Glu Arg Arg	1250	1255	1260
Asp Ser Phe Lys Lys Gln Glu Ala Val Gln Glu Val Ser Phe Asp	1265	1270	1275
Glu Pro Gln Glu Glu Ala Thr Gly Leu Pro Thr Ser Val Pro Gln	1280	1285	1290
Ile Ala Val Glu Gly Glu Glu Ala Val Pro Val Ala Leu Gly Pro	1295	1300	1305

Thr Gly Arg Asp

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<213> Homo sapiens

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Met Lys Ser Arg Arg Asp Lys Leu His Ile Pro Ala Leu Thr Leu
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Asp Leu Ser Pro Ser Ser Gln Ser Pro Ser Leu Leu Gly Pro Ser
          20          25          30
Ser Pro Cys Ser Pro Cys Ser Pro Ser Leu Gly Leu His Pro Trp
          35          40          45
Ser Cys Arg Ser Gly Asn Arg Lys Ser Leu Val Val Gly Thr Pro
          50          55          60
Ser Pro Thr Leu Ser Arg Pro Leu Ser Pro Leu Ser Val Pro Thr
          65          70          75
Ala Gly Ser Ser Pro Leu Asp Ser Pro Arg Asn Phe Ser Ala Ala
          80          85          90
Ser Ala Leu Asn Phe Pro Phe Ala Arg Arg Ala Asp Gly Arg Arg
          95          100          105
Trp Ser Leu Ala Ser Leu Pro Ser Ser Gly Tyr Gly Thr Asn Thr
          110          115          120
Pro Ser Ser Thr Leu Ser Ser Ser Ser Ser Arg Glu Arg Leu
          125          130          135
His Gln Leu Pro Phe Gln Pro Thr Pro Asp Glu Leu His Phe Leu
          140          145          150
Ser Lys His Phe Arg Ser Ser Glu Asn Val Leu Asp Glu Glu Gly
          155          160          165
Gly Arg Ser Pro Arg Leu Arg Pro Arg Ser Arg Ser Leu Ser Pro
          170          175          180
Gly Arg Ala Thr Gly Thr Phe Asp Asn Glu Ile Val Met Met Asn
          185          190          195
His Val Tyr Arg Glu Arg Phe Pro Lys Ala Thr Ala Gln Met Glu
          200          205          210
Gly Arg Leu Gln Glu Phe Leu Thr Ala Tyr Ala Pro Gly Ala Arg
          215          220          225
Leu Ala Leu Ala Asp Gly Val Leu Gly Phe Ile His His Gln Ile
          230          235          240
Val Glu Leu Ala Arg Asp Cys Leu Ala Lys Ser Gly Glu Asn Leu
          245          250          255
Val Thr Ser Arg Tyr Phe Leu Glu Met Gln Glu Lys Leu Glu Arg
          260          265          270
Leu Leu Gln Asp Ala His Glu Arg Ser Asp Ser Glu Glu Val Ser
          275          280          285
Phe Ile Val Gln Leu Val Arg Lys Leu Leu Ile Ile Ile Ser Arg
          290          295          300
Pro Ala Arg Leu Leu Glu Cys Leu Glu Phe Asp Pro Glu Glu Phe
          305          310          315
Tyr His Leu Leu Glu Ala Ala Glu Gly His Ala Arg Glu Gly Gln
          320          325          330
Gly Ile Lys Thr Asp Leu Pro Gln Tyr Ile Ile Gly Gln Leu Gly
          335          340          345
Leu Ala Lys Asp Pro Leu Glu Glu Met Val Pro Leu Ser His Leu
          350          355          360
Glu Glu Glu Gln Pro Pro Ala Pro Glu Ser Pro Glu Ser Arg Ala
          365          370          375
Leu Val Gly Gln Ser Arg Arg Lys Pro Cys Glu Ser Asp Phe Glu

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	380		385		390
Thr Ile Lys Leu	Ile Ser Asn Gly Ala	Tyr Gly Ala Val Tyr	Leu		
	395	400	405		
Val Arg His Arg	Asp Thr Arg Gln Arg	Phe Ala Ile Lys Lys	Ile		
	410	415	420		
Asn Lys Gln Asn	Leu Ile Leu Arg Asn	Gln Ile Gln Gln Val	Phe		
	425	430	435		
Val Glu Arg Asp	Ile Leu Thr Phe Ala	Glu Asn Pro Phe Val	Val		
	440	445	450		
Ser Met Phe Cys	Ser Phe Glu Thr Arg	Arg His Leu Cys Met	Val		
	455	460	465		
Met Glu Tyr Val	Glu Gly Gly Asp Cys	Ala Thr Leu Leu Lys	Asn		
	470	475	480		
Met Gly Pro Leu	Pro Val Asp Met Ala	Arg Leu Tyr Phe Ala	Glu		
	485	490	495		
Thr Val Leu Ala	Leu Glu Tyr Leu His	Asn Tyr Gly Ile Val	His		
	500	505	510		
Arg Asp Leu Lys	Pro Asp Asn Leu Leu	Ile Thr Ser Leu Gly	His		
	515	520	525		
Ile Lys Leu Thr	Asp Phe Gly Leu Ser	Lys Ile Gly Leu Met	Ser		
	530	535	540		
Met Ala Thr Asn	Leu Tyr Glu Gly His	Ile Glu Lys Asp Ala	Arg		
	545	550	555		
Glu Phe Ile Asp	Lys Gln Val Cys Gly	Thr Pro Glu Tyr Ile	Ala		
	560	565	570		
Pro Glu Val Ile	Phe Arg Gln Gly Tyr	Gly Lys Pro Val Asp	Trp		
	575	580	585		
Trp Ala Met Gly	Val Val Leu Tyr Glu	Phe Leu Val Gly Cys	Val		
	590	595	600		
Pro Phe Phe Gly	Asp Thr Pro Glu Glu	Leu Phe Gly Gln Val	Val		
	605	610	615		
Ser Asp Glu Ile	Met Trp Pro Glu Gly	Asp Glu Ala Leu Pro	Ala		
	620	625	630		
Asp Ala Gln Asp	Leu Ile Thr Arg Leu	Leu Arg Gln Ser Pro	Leu		
	635	640	645		
Asp Arg Leu Gly	Thr Gly Gly Thr His	Glu Val Lys Gln His	Pro		
	650	655	660		
Phe Phe Leu Ala	Leu Asp Trp Ala Gly	Leu Leu Arg His Lys	Ala		
	665	670	675		
Glu Phe Val Pro	Gln Leu Glu Ala Glu	Asp Asp Thr Ser Tyr	Phe		
	680	685	690		
Asp Thr Arg Ser	Glu Arg Tyr Arg His	Leu Gly Ser Glu Asp	Asp		
	695	700	705		
Glu Thr Asn Asp	Glu Glu Ser Ser Thr	Glu Ile Pro Gln Phe	Ser		
	710	715	720		
Ser Cys Ser His	Arg Phe Ser Lys Val	Tyr Ser Ser Ser Glu	Phe		
	725	730	735		
Leu Ala Val Gln	Pro Thr Pro Thr Phe	Ala Glu Arg Ser Phe	Ser		
	740	745	750		
Glu Asp Arg Glu	Glu Gly Trp Glu Arg	Ser Glu Val Asp Tyr	Gly		
	755	760	765		
Arg Arg Leu Ser	Ala Asp Ile Arg Leu	Arg Ser Trp Thr Ser	Ser		
	770	775	780		
Gly Ser Ser Cys	Gln Ser Ser Ser Ser	Gln Pro Glu Arg Gly	Pro		
	785	790	795		
Ser Pro Ser Leu	Leu Asn Thr Ile Ser	Leu Asp Thr Met Pro	Lys		
	800	805	810		
Phe Ala Phe Ser	Ser Glu Asp Glu Gly	Val Gly Pro Gly Pro	Ala		
	815	820	825		
Gly Pro Lys Arg	Pro Val Phe Ile Leu	Gly Glu Pro Asp Pro	Pro		
	830	835	840		
Pro Ala Ala Thr	Pro Val Met Pro Lys	Pro Ser Ser Leu Ser	Ala		
	845	850	855		
Asp Thr Ala Ala	Leu Ser His Ala Arg	Leu Arg Ser Asn Ser	Ile		

	860		865		870
Gly Ala Arg His	Ser Thr Pro Arg Pro	Leu Asp Ala Gly Arg	Gly		
	875		880		885
Arg Arg Leu Gly	Gly Pro Arg Asp Pro	Ala Pro Glu Lys Ser	Arg		
	890		895		900
Ala Ser Ser Ser	Gly Gly Ser Gly Gly	Gly Ser Gly Gly Arg	Val		
	905		910		915
Pro Lys Ser Ala	Ser Val Ser Ala Leu	Ser Leu Ile Ile Thr	Ala		
	920		925		930
Asp Asp Gly Ser	Gly Gly Pro Leu Met	Ser Pro Leu Ser Pro	Arg		
	935		940		945
Ser Leu Ser Ser	Asn Pro Ser Ser Arg	Asp Ser Ser Pro Ser	Arg		
	950		955		960
Asp Pro Ser Pro	Val Cys Gly Ser Leu	Arg Pro Pro Ile Val	Ile		
	965		970		975
His Ser Ser Gly	Lys Lys Tyr Gly Phe	Ser Leu Arg Ala Ile	Arg		
	980		985		990
Val Tyr Met Gly	Asp Ser Asp Val Tyr	Thr Val His His Val	Val		
	995		1000		1005
Trp Ser Val Glu	Asp Gly Ser Pro Ala	Gln Glu Ala Gly Leu	Arg		
	1010		1015		1020
Ala Gly Asp Leu	Ile Thr His Ile Asn	Gly Glu Ser Val Leu	Gly		
	1025		1030		1035
Leu Val His Met	Asp Val Val Glu Leu	Leu Leu Lys Ser Gly	Asn		
	1040		1045		1050
Lys Ile Ser Leu	Arg Thr Thr Ala Leu	Glu Asn Thr Ser Ile	Lys		
	1055		1060		1065
Val Gly Pro Ala	Arg Lys Asn Val Ala	Lys Gly Arg Met Ala	Arg		
	1070		1075		1080
Arg Ser Lys Arg	Ser Arg Arg Arg Glu	Thr Gln Asp Arg Arg	Lys		
	1085		1090		1095
Ser Leu Phe Lys	Lys Ile Ser Lys Gln	Thr Ser Val Leu His	Thr		
	1100		1105		1110
Ser Arg Ser Phe	Ser Ser Gly Leu His	His Ser Leu Ser Ser	Ser		
	1115		1120		1125
Glu Ser Leu Pro	Gly Ser Pro Thr His	Ser Leu Ser Pro Ser	Pro		
	1130		1135		1140
Thr Thr Pro Cys	Arg Ser Pro Ala Pro	Asp Val Pro Ala Asp	Thr		
	1145		1150		1155
Thr Ala Ser Pro	Pro Ser Ala Ser Pro	Ser Ser Ser Pro Ala			
	1160		1165		1170
Ser Pro Ala Ala	Ala Gly His Thr Arg	Pro Ser Ser Leu His	Gly		
	1175		1180		1185
Leu Ala Ala Lys	Leu Gly Pro Pro Arg	Pro Lys Thr Gly Arg	Arg		
	1190		1195		1200
Lys Ser Thr Ser	Ser Ile Pro Pro Ser	Pro Leu Ala Cys Pro	Pro		
	1205		1210		1215
Ile Ser Ala Pro	Pro Pro Arg Ser Pro	Ser Pro Leu Pro Gly	His		
	1220		1225		1230
Pro Pro Ala Pro	Ala Arg Ser Pro Arg	Leu Arg Arg Gly Gln	Ser		
	1235		1240		1245
Ala Asp Lys Leu	Gly Thr Gly Glu Arg	Leu Asp Gly Glu Ala	Gly		
	1250		1255		1260
Arg Arg Thr Arg	Gly Pro Glu Ala Glu	Leu Val Val Met Arg	Arg		
	1265		1270		1275
Leu His Leu Ser	Glu Arg Arg Asp Ser	Phe Lys Lys Gln Glu	Ala		
	1280		1285		1290
Val Gln Glu Val	Ser Phe Asp Glu Pro	Gln Glu Glu Ala Thr	Gly		
	1295		1300		1305
Leu Pro Thr Ser	Val Pro Gln Ile Ala	Val Glu Gly Glu Glu	Ala		
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Val Pro Val Ala	Leu Gly Pro Thr Gly	Arg Asp			
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 35 40 45
 Val Glu Pro Ser Ser Gly Gly Gly Cys Gly Tyr Val Gln Asp Leu
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 Ser Ser Asp Gln Gln Val Gly Val Ile Lys Pro Trp Leu Leu Leu
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 Gly Asp Ser Tyr Ser
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 35 40 45
 Ala Arg Glu Gly Glu Gly Val Gly Gly Gly Gly Gly Val Pro
 50 55 60
 Val Pro Lys Arg Pro Ala Glu Gly Gly Gly Gly Cys Glu Gly Leu
 65 70 75
 Arg Glu Ala Met Asp Val Glu Arg Leu Gln Glu Ala Leu Lys Asp
 80 85 90
 Phe Glu Lys Arg Gly Lys Lys Glu Val Cys Pro Val Leu Asp Gln
 95 100 105
 Phe Leu Cys His Val Ala Lys Thr Gly Glu Thr Met Ile Gln Trp
 110 115 120
 Ser Gln Phe Lys Gly Tyr Phe Ile Phe Lys Leu Glu Lys Val Met
 125 130 135
 Asp Asp Phe Arg Thr Ser Ala Pro Glu Pro Arg Gly Pro Pro Asn
 140 145 150
 Pro Asn Val Glu Tyr Ile Pro Phe Asp Glu Met Lys Glu Arg Ile
 155 160 165
 Leu Lys Ile Val Thr Gly Phe Asn Gly Ile Pro Phe Thr Ile Gln
 170 175 180
 Arg Leu Cys Glu Leu Leu Thr Asp Pro Arg Arg Asn Tyr Thr Gly
 185 190 195
 Thr Asp Lys Phe Leu Arg Gly Val Glu Lys Asn Val Met Val Val
 200 205 210
 Ser Cys Val Tyr Pro Ser Ser Glu Lys Asn Asn Ser Asn Ser Leu
 215 220 225
 Asn Arg Met Asn Gly Val Met Phe Pro Gly Asn Ser Pro Ser Tyr

Thr	Glu	Arg	Ser	Asn	Ile	Asn	Gly	Pro	Gly	Thr	Pro	Arg	Pro	Leu	230	235	240
Asn	Arg	Pro	Lys	Val	Ser	Leu	Ser	Ala	Pro	Met	Thr	Thr	Asn	Gly	245	250	255
Leu	Pro	Glu	Ser	Thr	Asp	Ser	Lys	Glu	Ala	Asn	Leu	Gln	Gln	Asn	260	265	270
Glu	Glu	Lys	Asn	His	Ser	Asp	Ser	Ser	Thr	Ser	Glu	Ser	Glu	Val	275	280	285
Ser	Ser	Val	Ser	Pro	Leu	Lys	Asn	Lys	His	Pro	Asp	Glu	Asp	Ala	290	295	300
Val	Glu	Ala	Glu	Gly	His	Glu	Val	Lys	Arg	Leu	Arg	Phe	Asp	Lys	305	310	315
Glu	Gly	Glu	Val	Arg	Glu	Thr	Ala	Ser	Gln	Thr	Thr	Ser	Ser	Glu	320	325	330
Ile	Ser	Ser	Val	Met	Val	Gly	Glu	Thr	Glu	Ala	Ser	Ser	Ser	Ser	335	340	345
Gln	Asp	Lys	Asp	Lys	Asp	Ser	Arg	Cys	Thr	Arg	Gln	His	Cys	Thr	350	355	360
Glu	Glu	Asp	Glu	Glu	Glu	Asp	Glu	Glu	Glu	Glu	Glu	Glu	Ser	Phe	365	370	375
Met	Thr	Ser	Arg	Glu	Met	Ile	Pro	Glu	Arg	Lys	Asn	Gln	Glu	Lys	380	385	390
Glu	Ser	Asp	Asp	Ala	Leu	Thr	Val	Asn	Glu	Glu	Thr	Ser	Glu	Glu	395	400	405
Asn	Asn	Gln	Met	Glu	Glu	Ser	Asp	Val	Ser	Gln	Ala	Glu	Lys	Asp	410	415	420
Leu	Leu	His	Ser	Glu	Gly	Ser	Glu	Asn	Glu	Gly	Pro	Val	Ser	Ser	425	430	435
Ser	Ser	Ser	Asp	Cys	Arg	Glu	Thr	Glu	Glu	Leu	Val	Gly	Ser	Asn	440	445	450
Ser	Ser	Lys	Thr	Gly	Glu	Ile	Leu	Ser	Glu	Ser	Ser	Met	Glu	Asn	455	460	465
Asp	Asp	Glu	Ala	Thr	Glu	Val	Thr	Asp	Glu	Pro	Met	Glu	Gln	Asp	470	475	480
															485	490	495

<210> 29

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526185CD1

<400> 29

Met	Ala	His	Ser	Pro	Val	Gln	Ser	Gly	Leu	Pro	Gly	Met	Gln	Asn	1	5	10	15
Leu	Lys	Ala	Asp	Pro	Glu	Glu	Leu	Phe	Thr	Lys	Leu	Glu	Lys	Ile	20	25	30	35
Gly	Lys	Gly	Ser	Phe	Gly	Glu	Val	Phe	Lys	Gly	Ile	Asp	Asn	Arg	40	45	50	55
Thr	Gln	Lys	Val	Val	Ala	Ile	Lys	Ile	Ile	Asp	Leu	Glu	Glu	Ala	60	65	70	75
Glu	Asp	Glu	Ile	Glu	Asp	Ile	Gln	Gln	Gln	Ile	Thr	Val	Leu	Ser	80	85	90	95
Gln	Cys	Asp	Ser	Pro	Tyr	Val	Thr	Lys	Tyr	Tyr	Gly	Ser	Tyr	Leu	100	105	110	115
Lys	Asp	Thr	Lys	Leu	Trp	Ile	Ile	Met	Glu	Tyr	Leu	Gly	Gly	Gly	120	125	130	135
Ser	Ala	Leu	Asp	Leu	Leu	Glu	Pro	Gly	Pro	Leu	Asp	Glu	Thr	Gln	140	145	150	155
Ile	Ala	Thr	Ile	Leu	Arg	Glu	Ile	Leu	Lys	Gly	Leu	Asp	Tyr	Leu	160	165	170	175

	125		130		135
His Ser Glu Lys	Lys Ile His Arg Asp	Ile Lys Gly Arg His	Leu		
	140	145	150		
Val Pro Gly His	Asn Ser Tyr				
	155				

<210> 30
 <211> 305
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526192CD1

<400> 30

Met Asp Phe Asp Lys	Lys Gly Gly Lys Gly	Glu Thr Glu Glu Gly	
1	5	10	15
Arg Arg Met Ser Lys	Ala Gly Gly Gly Arg	Ser Ser His Gly Ile	
	20	25	30
Arg Ser Ser Gly Thr	Ser Ser Gly Val Leu	Met Val Gly Pro Asn	
	35	40	45
Phe Arg Val Gly Lys	Lys Ile Gly Cys Gly	Asn Phe Gly Glu Leu	
	50	55	60
Arg Leu Gly Lys Asn	Leu Tyr Thr Asn Glu	Tyr Val Ala Ile Lys	
	65	70	75
Leu Val Ser Arg Pro	Leu His Pro Thr Pro	Ala Asp Val Pro Pro	
	80	85	90
Arg Asp Phe Arg Ala	Ala Thr Arg Ser Pro	Gly Asp Ser Leu Leu	
	95	100	105
Cys Pro Gln Glu Pro	Ile Lys Ser Arg Ala	Pro Gln Leu His Leu	
	110	115	120
Glu Tyr Arg Phe Tyr	Lys Gln Leu Ser Ala	Thr Glu Gly Val Pro	
	125	130	135
Gln Val Tyr Tyr Phe	Gly Pro Cys Gly Lys	Tyr Asn Ala Met Val	
	140	145	150
Leu Glu Leu Leu Gly	Pro Ile Leu Glu Asp	Leu Phe Asp Leu Cys	
	155	160	165
Asp Arg Thr Phe Thr	Leu Thr Thr Val Leu	Met Ile Ala Ile Gln	
	170	175	180
Leu Ile Thr Arg Met	Glu Tyr Val His Thr	Lys Ser Leu Ile Tyr	
	185	190	195
Arg Asp Val Lys Pro	Glu Asn Phe Leu Val	Gly Arg Pro Gly Thr	
	200	205	210
Lys Arg Gln His Ala	Ile His Ile Ile Asp	Phe Gly Leu Ala Lys	
	215	220	225
Glu Tyr Ile Asp Pro	Glu Thr Lys Lys His	Ile Pro Tyr Arg Glu	
	230	235	240
His Lys Ser Leu Thr	Gly Thr Ala Arg Tyr	Met Ser Ile Asn Thr	
	245	250	255
His Leu Gly Lys Glu	Gln Ser Arg Arg Asp	Asp Leu Glu Ala Leu	
	260	265	270
Gly His Met Phe Met	Tyr Phe Leu Arg Gly	Ser Leu Pro Trp Gln	
	275	280	285
Gly Leu Lys Val Gly	Glu Glu Ala Gly Gln	Ala Gly Gly Asp Ala	
	290	295	300
Gly Arg Glu Gln Gly			
	305		

<210> 31
 <211> 930
 <212> PRT
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526193CD1

<400> 31

Met	Lys	Lys	Phe	Phe	Asp	Ser	Arg	Arg	Glu	Gln	Gly	Gly	Ser	Gly
1				5					10					15
Leu	Gly	Ser	Gly	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Thr	Ser	Gly	Leu
				20					25					30
Gly	Ser	Gly	Tyr	Ile	Gly	Arg	Val	Phe	Gly	Ile	Gly	Arg	Gln	Gln
				35					40					45
Val	Thr	Val	Asp	Glu	Val	Leu	Ala	Glu	Gly	Gly	Phe	Ala	Ile	Val
				50					55					60
Phe	Leu	Val	Arg	Thr	Ser	Asn	Gly	Met	Lys	Cys	Ala	Leu	Lys	Arg
				65					70					75
Met	Phe	Val	Asn	Asn	Glu	His	Asp	Leu	Gln	Val	Cys	Lys	Arg	Glu
				80					85					90
Ile	Gln	Ile	Met	Arg	Asp	Leu	Ser	Gly	His	Lys	Asn	Ile	Val	Gly
				95					100					105
Tyr	Ile	Asp	Ser	Ser	Ile	Asn	Asn	Val	Ser	Ser	Gly	Asp	Val	Trp
				110					115					120
Glu	Val	Leu	Ile	Leu	Met	Asp	Phe	Cys	Arg	Gly	Gly	Gln	Val	Val
				125					130					135
Asn	Leu	Met	Asn	Gln	Arg	Leu	Gln	Thr	Gly	Phe	Thr	Glu	Asn	Glu
				140					145					150
Val	Leu	Gln	Ile	Phe	Cys	Asp	Thr	Cys	Glu	Ala	Val	Ala	Arg	Leu
				155					160					165
His	Gln	Cys	Lys	Thr	Pro	Ile	Ile	His	Arg	Asp	Leu	Lys	Val	Glu
				170					175					180
Asn	Ile	Leu	Leu	His	Asp	Arg	Gly	His	Tyr	Val	Leu	Cys	Asp	Phe
				185					190					195
Gly	Ser	Ala	Thr	Asn	Lys	Phe	Gln	Asn	Pro	Gln	Thr	Glu	Gly	Val
				200					205					210
Asn	Ala	Val	Glu	Asp	Glu	Ile	Lys	Lys	Tyr	Thr	Thr	Leu	Ser	Tyr
				215					220					225
Arg	Ala	Pro	Glu	Met	Val	Asn	Leu	Tyr	Ser	Gly	Lys	Ile	Ile	Thr
				230					235					240
Thr	Lys	Ala	Asp	Ile	Trp	Ala	Leu	Gly	Cys	Leu	Leu	Tyr	Lys	Leu
				245					250					255
Cys	Tyr	Phe	Thr	Leu	Pro	Phe	Gly	Glu	Ser	Gln	Val	Ala	Ile	Cys
				260					265					270
Asp	Gly	Asn	Phe	Thr	Ile	Pro	Asp	Asn	Ser	Arg	Tyr	Ser	Gln	Asp
				275					280					285
Met	His	Cys	Leu	Ile	Arg	Tyr	Met	Leu	Glu	Pro	Asp	Pro	Asp	Lys
				290					295					300
Arg	Pro	Asp	Ile	Tyr	Gln	Val	Ser	Tyr	Phe	Ser	Phe	Lys	Leu	Leu
				305					310					315
Lys	Lys	Glu	Cys	Pro	Ile	Pro	Asn	Val	Gln	Asn	Ser	Pro	Ile	Pro
				320					325					330
Ala	Lys	Leu	Pro	Glu	Pro	Val	Lys	Ala	Ser	Glu	Ala	Ala	Ala	Lys
				335					340					345
Lys	Thr	Gln	Pro	Lys	Ala	Arg	Leu	Thr	Asp	Pro	Ile	Pro	Thr	Thr
				350					355					360
Glu	Thr	Ser	Ile	Ala	Pro	Arg	Gln	Arg	Pro	Lys	Ala	Gly	Gln	Thr
				365					370					375
Gln	Pro	Asn	Pro	Gly	Ile	Leu	Pro	Ile	Gln	Pro	Ala	Leu	Thr	Pro
				380					385					390
Arg	Lys	Arg	Ala	Thr	Val	Gln	Pro	Pro	Pro	Gln	Ala	Ala	Gly	Ser
				395					400					405
Ser	Asn	Gln	Pro	Gly	Leu	Leu	Ala	Ser	Val	Pro	Gln	Pro	Lys	Pro
				410					415					420
Gln	Ala	Pro	Pro	Ser	Gln	Pro	Leu	Pro	Gln	Thr	Gln	Ala	Lys	Gln
				425					430					435
Pro	Gln	Ala	Pro	Pro	Thr	Pro	Gln	Gln	Thr	Pro	Ser	Thr	Gln	Ala

	440		445		450
Gln Gly Leu Pro	Ala Gln Ala Gln Ala	Thr Pro Gln His Gln Gln			
	455		460		465
Gln Leu Phe Leu	Lys Gln Gln Gln Gln	Gln Gln Gln Pro Pro			
	470		475		480
Ala Gln Gln Gln	Pro Ala Gly Thr Phe	Tyr Gln Gln Gln Gln Ala			
	485		490		495
Gln Thr Gln Gln	Phe Gln Ala Val His	Pro Ala Thr Gln Gln Pro			
	500		505		510
Ala Ile Ala Gln	Phe Pro Val Val Ser	Gln Gly Gly Ser Gln Gln			
	515		520		525
Gln Leu Met Gln	Asn Phe Tyr Gln Gln	Gln Gln Gln Gln Gln Gln			
	530		535		540
Gln Gln Gln Gln	Gln Gln Leu Ala Thr	Ala Leu His Gln Gln Gln			
	545		550		555
Leu Met Thr Gln	Gln Ala Ala Leu Gln	Gln Lys Pro Thr Met Ala			
	560		565		570
Ala Gly Gln Gln	Pro Gln Pro Gln Pro	Ala Ala Ala Pro Gln Pro			
	575		580		585
Ala Pro Ala Gln	Glu Pro Ala Gln Ile	Gln Ala Pro Val Arg Gln			
	590		595		600
Gln Pro Lys Val	Gln Thr Thr Pro Pro	Pro Ala Val Gln Gly Gln			
	605		610		615
Lys Val Gly Ser	Leu Thr Pro Pro Ser	Ser Pro Lys Thr Gln Arg			
	620		625		630
Ala Gly His Arg	Arg Ile Leu Ser Asp	Val Thr His Ser Ala Val			
	635		640		645
Phe Gly Val Pro	Ala Ser Lys Ser Thr	Gln Leu Leu Gln Ala Ala			
	650		655		660
Ala Ala Glu Ala	Ser Leu Asn Lys Ser	Lys Ser Ala Thr Thr Thr			
	665		670		675
Pro Ser Gly Ser	Pro Arg Thr Ser Gln	Gln Asn Val Tyr Asn Pro			
	680		685		690
Ser Glu Gly Ser	Thr Trp Asn Pro Phe	Asp Asp Asp Asn Phe Ser			
	695		700		705
Lys Leu Thr Ala	Glu Glu Leu Leu Asn	Lys Asp Phe Ala Lys Leu			
	710		715		720
Gly Glu Gly Lys	His Pro Glu Lys Leu	Gly Gly Ser Ala Glu Ser			
	725		730		735
Leu Ile Pro Gly	Phe Gln Ser Thr Gln	Gly Asp Ala Phe Ala Thr			
	740		745		750
Thr Ser Phe Ser	Ala Gly Thr Glu Lys	Leu Ile Glu Gly Leu Lys			
	755		760		765
Ser Pro Asp Thr	Ser Leu Leu Leu Pro	Asp Leu Leu Pro Met Thr			
	770		775		780
Asp Pro Phe Gly	Ser Thr Ser Asp Ala	Val Ile Glu Lys Ala Asp			
	785		790		795
Val Ala Val Glu	Ser Leu Ile Pro Gly	Leu Glu Pro Pro Val Pro			
	800		805		810
Gln Arg Leu Pro	Ser Gln Thr Glu Ser	Val Thr Ser Asn Arg Thr			
	815		820		825
Asp Ser Leu Thr	Gly Glu Asp Ser Leu	Leu Asp Cys Ser Leu Leu			
	830		835		840
Ser Asn Pro Thr	Thr Asp Leu Leu Glu	Glu Phe Ala Pro Thr Ala			
	845		850		855
Ile Ser Ala Pro	Val His Lys Ala Ala	Glu Asp Ser Asn Leu Ile			
	860		865		870
Ser Gly Phe Asp	Val Pro Glu Gly Ser	Asp Lys Val Ala Glu Asp			
	875		880		885
Glu Phe Asp Pro	Ile Pro Val Leu Ile	Thr Lys Asn Pro Gln Gly			
	890		895		900
Gly His Ser Arg	Asn Ser Ser Gly Ser	Ser Glu Ser Ser Leu Pro			
	905		910		915
Asn Leu Ala Arg	Ser Leu Leu Leu Val	Asp Gln Leu Ile Asp Leu			

920

925

930

<210> 32
 <211> 118
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 7526196CD1

<400> 32
 Met Ser Leu Leu Gln Ser Ala Leu Asp Phe Leu Ala Gly Pro Gly
 1 5 10 15
 Ser Leu Gly Gly Ala Ser Gly Arg Asp Gln Ser Asp Phe Val Gly
 20 25 30
 Gln Thr Val Glu Leu Gly Glu Leu Arg Leu Arg Val Arg Arg Val
 35 40 45
 Leu Ala Glu Gly Gly Phe Ala Phe Val Tyr Glu Ala Gln Asp Val
 50 55 60
 Gly Ser Gly Arg Glu Tyr Ala Leu Lys Arg Leu Leu Ser Asn Glu
 65 70 75
 Glu Glu Lys Asn Arg Ala Ile Ile Gln Glu Val Cys Phe Met Leu
 80 85 90
 Cys Ser Leu Gly Glu Pro Ala Gly Cys Leu Ser Val Gly Ser Gly
 95 100 105
 Gly His Ser His Ala Ser Ala Ser Leu Arg Thr Ala Pro
 110 115

<210> 33
 <211> 1355
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526198CD1

<400> 33
 Met Ser Leu Leu Gln Ser Ala Leu Asp Phe Leu Ala Gly Pro Gly
 1 5 10 15
 Ser Leu Gly Gly Ala Ser Gly Arg Asp Gln Ser Asp Phe Val Gly
 20 25 30
 Gln Thr Val Glu Leu Gly Glu Leu Arg Leu Arg Val Arg Arg Val
 35 40 45
 Leu Ala Glu Gly Gly Phe Ala Phe Val Tyr Glu Ala Gln Asp Val
 50 55 60
 Gly Ser Gly Arg Glu Tyr Ala Leu Lys Arg Leu Leu Ser Asn Glu
 65 70 75
 Glu Glu Lys Asn Arg Ala Ile Ile Gln Glu Val Cys Phe Met Lys
 80 85 90
 Lys Leu Ser Gly His Pro Asn Ile Val Gln Phe Cys Ser Ala Ala
 95 100 105
 Ser Ile Gly Lys Glu Glu Ser Asp Thr Gly Gln Ala Glu Phe Leu
 110 115 120
 Leu Leu Thr Glu Leu Cys Lys Gly Gln Leu Val Glu Phe Leu Lys
 125 130 135
 Lys Met Glu Ser Arg Gly Pro Leu Ser Cys Asp Thr Val Leu Lys
 140 145 150
 Ile Phe Tyr Gln Thr Cys Arg Ala Val Gln His Met His Arg Gln
 155 160 165
 Lys Pro Pro Ile Ile His Arg Asp Leu Lys Val Glu Asn Leu Leu
 170 175 180

Leu	Ser	Asn	Gln	Gly	Thr	Ile	Lys	Leu	Cys	Asp	Phe	Gly	Ser	Ala
				185					190					195
Thr	Thr	Ile	Ser	His	Tyr	Pro	Asp	Tyr	Ser	Trp	Ser	Ala	Gln	Arg
				200					205					210
Arg	Ala	Leu	Val	Glu	Glu	Glu	Ile	Thr	Arg	Asn	Thr	Thr	Pro	Met
				215					220					225
Tyr	Arg	Thr	Pro	Glu	Ile	Ile	Asp	Leu	Tyr	Ser	Asn	Phe	Pro	Ile
				230					235					240
Gly	Glu	Lys	Gln	Asp	Ile	Trp	Ala	Leu	Gly	Cys	Ile	Leu	Tyr	Leu
				245					250					255
Leu	Cys	Phe	Arg	Gln	His	Pro	Phe	Glu	Asp	Gly	Ala	Lys	Leu	Arg
				260					265					270
Ile	Val	Asn	Gly	Lys	Tyr	Ser	Ile	Pro	Pro	His	Asp	Thr	Gln	Tyr
				275					280					285
Thr	Val	Phe	His	Ser	Leu	Ile	Arg	Ala	Met	Leu	Gln	Val	Asn	Pro
				290					295					300
Glu	Glu	Arg	Leu	Ser	Ile	Ala	Glu	Val	Val	His	Gln	Leu	Gln	Glu
				305					310					315
Ile	Ala	Ala	Ala	Arg	Asn	Val	Asn	Pro	Lys	Ser	Pro	Ile	Thr	Glu
				320					325					330
Leu	Leu	Glu	Gln	Asn	Gly	Gly	Tyr	Gly	Ser	Ala	Thr	Leu	Ser	Arg
				335					340					345
Gly	Pro	Pro	Pro	Pro	Val	Gly	Pro	Ala	Gly	Ser	Gly	Tyr	Ser	Gly
				350					355					360
Gly	Leu	Ala	Leu	Ala	Glu	Tyr	Asp	Gln	Pro	Tyr	Gly	Gly	Phe	Leu
				365					370					375
Asp	Ile	Leu	Arg	Gly	Gly	Thr	Glu	Arg	Leu	Phe	Thr	Asn	Leu	Lys
				380					385					390
Asp	Thr	Ser	Ser	Lys	Val	Ile	Gln	Ser	Val	Ala	Asn	Tyr	Ala	Lys
				395					400					405
Gly	Asp	Leu	Asp	Ile	Ser	Tyr	Ile	Thr	Ser	Arg	Ile	Ala	Val	Met
				410					415					420
Ser	Phe	Pro	Ala	Glu	Gly	Val	Glu	Ser	Ala	Leu	Lys	Asn	Asn	Ile
				425					430					435
Glu	Asp	Val	Arg	Leu	Phe	Leu	Asp	Ser	Lys	His	Pro	Gly	His	Tyr
				440					445					450
Ala	Val	Tyr	Asn	Leu	Ser	Pro	Arg	Thr	Tyr	Arg	Pro	Ser	Arg	Phe
				455					460					465
His	Asn	Arg	Val	Ser	Glu	Cys	Gly	Trp	Ala	Ala	Arg	Arg	Ala	Pro
				470					475					480
His	Leu	His	Thr	Leu	Tyr	Asn	Ile	Cys	Arg	Asn	Met	His	Ala	Trp
				485					490					495
Leu	Arg	Gln	Asp	His	Lys	Asn	Val	Cys	Val	Val	His	Cys	Met	Asp
				500					505					510
Gly	Arg	Ala	Ala	Ser	Ala	Val	Ala	Val	Cys	Ser	Phe	Leu	Cys	Phe
				515					520					525
Cys	Arg	Leu	Phe	Ser	Thr	Ala	Glu	Ala	Ala	Val	Tyr	Met	Phe	Ser
				530					535					540
Met	Lys	Arg	Cys	Pro	Pro	Gly	Ile	Trp	Pro	Ser	His	Lys	Arg	Tyr
				545					550					555
Ile	Glu	Tyr	Met	Cys	Asp	Met	Val	Ala	Glu	Glu	Pro	Ile	Thr	Pro
				560					565					570
His	Ser	Lys	Pro	Ile	Leu	Val	Arg	Ala	Val	Val	Met	Thr	Pro	Val
				575					580					585
Pro	Leu	Phe	Ser	Lys	Gln	Arg	Ser	Gly	Cys	Arg	Pro	Phe	Cys	Glu
				590					595					600
Val	Tyr	Val	Gly	Asp	Glu	Arg	Val	Ala	Ser	Thr	Ser	Gln	Glu	Tyr
				605					610					615
Asp	Lys	Met	Arg	Asp	Phe	Lys	Ile	Glu	Asp	Gly	Ile	Ala	Val	Ile
				620					625					630
Pro	Leu	Gly	Val	Thr	Val	Gln	Gly	Asp	Val	Leu	Ile	Val	Ile	Tyr
				635					640					645
His	Ala	Arg	Ser	Thr	Leu	Gly	Gly	Arg	Leu	Gln	Ala	Lys	Met	Ala
				650					655					660

Ser Met Lys Met	Phe Gln Ile Gln Phe His Thr Gly Phe Val Pro	665	670	675
Arg Asn Ala Thr	Thr Val Lys Phe Ala Lys Tyr Asp Leu Asp Ala	680	685	690
Cys Asp Ile Gln	Glu Lys Tyr Pro Asp Leu Phe Gln Val Asn Leu	695	700	705
Glu Val Glu Val	Glu Pro Arg Asp Arg Pro Ser Arg Glu Ala Pro	710	715	720
Pro Trp Glu Asn	Ser Ser Met Arg Gly Leu Asn Pro Lys Ile Leu	725	730	735
Phe Ser Ser Arg	Glu Glu Gln Gln Asp Ile Leu Ser Lys Phe Gly	740	745	750
Lys Pro Glu Leu	Pro Arg Gln Pro Gly Ser Thr Ala Gln Tyr Asp	755	760	765
Ala Gly Ala Gly	Ser Pro Glu Ala Glu Pro Thr Asp Ser Asp Ser	770	775	780
Pro Pro Ser Ser	Ser Ala Asp Ala Ser Arg Phe Leu His Thr Leu	785	790	795
Asp Trp Gln Glu	Glu Lys Glu Ala Glu Thr Gly Ala Glu Asn Ala	800	805	810
Ser Ser Lys Glu	Ser Glu Ser Ala Leu Met Glu Asp Arg Asp Glu	815	820	825
Ser Glu Val Ser	Asp Glu Gly Gly Ser Pro Ile Ser Ser Glu Gly	830	835	840
Gln Glu Pro Arg	Ala Asp Pro Glu Pro Pro Gly Leu Ala Ala Gly	845	850	855
Leu Val Gln Gln	Asp Leu Val Phe Glu Val Glu Thr Pro Ala Val	860	865	870
Leu Pro Glu Pro	Val Pro Gln Glu Asp Gly Val Asp Leu Leu Gly	875	880	885
Leu His Ser Glu	Val Gly Ala Gly Pro Ala Val Pro Pro Gln Ala	890	895	900
Cys Lys Ala Pro	Ser Ser Asn Thr Asp Leu Leu Ser Cys Leu Leu	905	910	915
Gly Pro Pro Glu	Ala Ala Ser Gln Gly Pro Pro Glu Asp Leu Leu	920	925	930
Ser Glu Asp Pro	Leu Leu Leu Ala Ser Pro Ala Pro Pro Leu Ser	935	940	945
Val Gln Ser Thr	Pro Arg Gly Gly Pro Pro Ala Ala Ala Asp Pro	950	955	960
Phe Gly Pro Leu	Leu Pro Ser Ser Gly Asn Asn Ser Gln Pro Cys	965	970	975
Ser Asn Pro Asp	Leu Phe Gly Glu Phe Leu Asn Ser Asp Ser Val	980	985	990
Thr Val Pro Pro	Ser Phe Pro Ser Ala His Ser Ala Pro Pro Pro	995	1000	1005
Ser Cys Ser Ala	Asp Phe Leu His Leu Gly Asp Leu Pro Gly Glu	1010	1015	1020
Pro Ser Lys Met	Thr Ala Ser Ser Ser Asn Pro Asp Leu Leu Gly	1025	1030	1035
Gly Trp Ala Ala	Trp Thr Glu Thr Ala Ala Ser Ala Val Ala Pro	1040	1045	1050
Thr Pro Ala Thr	Glu Gly Pro Leu Phe Ser Pro Gly Gly Gln Pro	1055	1060	1065
Ala Pro Cys Gly	Ser Gln Ala Ser Trp Thr Lys Ser Gln Asn Pro	1070	1075	1080
Asp Pro Phe Ala	Asp Leu Gly Asp Leu Ser Ser Gly Leu Gln Asp	1085	1090	1095
Pro Gln Ala Gln	Ser Thr Val Ser Pro Arg Gly Gln Arg Val Cys	1100	1105	1110
Thr Cys Ser Arg	Arg Leu Pro Thr Gly Lys Leu Lys Pro Gly Val	1115	1120	1125
Ala Asp Thr Gly	Thr Ala Ala Ser Pro His Arg His Cys Gly Ser	1130	1135	1140

Pro Ala Gly Phe Pro Pro Gly Gly Phe Ile Pro Lys Thr Ala Thr
 1145 1150 1155
 Thr Pro Lys Gly Ser Ser Ser Trp Gln Thr Ser Arg Pro Pro Ala
 1160 1165 1170
 Gln Gly Ala Ser Trp Pro Pro Gln Ala Lys Pro Pro Pro Lys Ala
 1175 1180 1185
 Cys Thr Gln Pro Arg Pro Asn Tyr Ala Ser Asn Phe Ser Val Ile
 1190 1195 1200
 Gly Ala Arg Glu Glu Arg Gly Val Arg Ala Pro Ser Phe Ala Gln
 1205 1210 1215
 Lys Pro Lys Val Ser Glu Asn Asp Phe Glu Asp Leu Leu Ser Asn
 1220 1225 1230
 Gln Gly Phe Ser Ser Arg Ser Asp Lys Lys Gly Pro Lys Thr Ile
 1235 1240 1245
 Ala Glu Met Arg Lys Gln Asp Leu Ala Lys Asp Thr Asp Pro Leu
 1250 1255 1260
 Lys Leu Lys Leu Leu Asp Trp Ile Glu Gly Lys Glu Arg Asn Ile
 1265 1270 1275
 Arg Ala Leu Leu Ser Thr Leu His Thr Val Leu Trp Asp Gly Glu
 1280 1285 1290
 Ser Arg Trp Thr Pro Val Gly Met Ala Asp Leu Val Ala Pro Glu
 1295 1300 1305
 Gln Val Lys Lys His Tyr Arg Arg Ala Val Leu Ala Val His Pro
 1310 1315 1320
 Asp Lys Ala Ala Gly Gln Pro Tyr Glu Gln His Ala Lys Met Ile
 1325 1330 1335
 Phe Met Glu Leu Asn Asp Ala Trp Ser Glu Phe Glu Asn Gln Gly
 1340 1345 1350
 Ser Arg Pro Leu Phe
 1355

<210> 34

<211> 490

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526208CD1

<400> 34

Met Ala Ser Thr Thr Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln
 1 5 10 15
 Leu Phe Glu Glu Leu Gly Lys Gly Ala Phe Ser Val Val Arg Arg
 20 25 30
 Cys Met Lys Ile Pro Thr Gly Gln Glu Tyr Ala Ala Lys Ile Ile
 35 40 45
 Asn Thr Lys Lys Leu Ser Ala Arg Val Arg Leu His Asp Ser Ile
 50 55 60
 Ser Glu Glu Gly Phe His Tyr Leu Val Phe Asp Leu Val Thr Gly
 65 70 75
 Gly Glu Leu Phe Glu Asp Ile Val Ala Arg Glu Tyr Tyr Ser Glu
 80 85 90
 Ala Asp Ala Ser His Cys Ile Gln Gln Ile Leu Glu Ala Val Leu
 95 100 105
 His Cys His Gln Met Gly Val Val His Arg Asp Leu Lys Pro Glu
 110 115 120
 Asn Leu Leu Leu Ala Ser Lys Ser Lys Gly Ala Ala Val Lys Leu
 125 130 135
 Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Asp Gln Gln Ala
 140 145 150
 Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu Val
 155 160 165
 Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Met Trp Ala Cys

	170		175		180
Gly Val Ile Leu Tyr	Ile Leu Leu Val	Gly Tyr Pro Pro Phe	Trp		
	185		190		195
Asp Glu Asp Gln His	Arg Leu Tyr Gln	Gln Ile Lys Ala Gly	Ala		
	200		205		210
Tyr Asp Phe Pro Ser	Pro Glu Trp Asp	Thr Val Thr Pro Glu	Ala		
	215		220		225
Lys Asp Leu Ile Asn	Lys Met Leu Thr	Ile Asn Pro Ala Lys	Arg		
	230		235		240
Ile Thr Ala Ser Glu	Ala Leu Lys His	Pro Trp Ile Cys Gln	Arg		
	245		250		255
Ser Thr Val Ala Ser	Met Met His Arg	Gln Glu Thr Val Asp	Cys		
	260		265		270
Leu Lys Lys Phe Asn	Ala Arg Arg Lys	Leu Lys Gly Ala Ile	Leu		
	275		280		285
Thr Thr Met Leu Ala	Thr Arg Asn Phe	Ser Ala Ala Lys Ser	Leu		
	290		295		300
Leu Lys Lys Pro Asp	Gly Val Lys Lys	Arg Lys Ser Ser Ser	Ser		
	305		310		315
Val Gln Met Met Glu	Ser Thr Glu Ser	Ser Asn Thr Thr Ile	Glu		
	320		325		330
Asp Glu Asp Val Glu	Ala Arg Lys Gln	Glu Ile Ile Lys Val	Thr		
	335		340		345
Glu Gln Leu Ile Glu	Ala Ile Asn Asn	Gly Asp Phe Glu Ala	Tyr		
	350		355		360
Thr Lys Ile Cys Asp	Pro Gly Leu Thr	Ala Phe Glu Pro Glu	Ala		
	365		370		375
Leu Gly Asn Leu Val	Glu Gly Met Asp	Phe His Arg Phe Tyr	Phe		
	380		385		390
Glu Asn Ala Leu Ser	Lys Ser Asn Lys	Pro Ile His Thr Ile	Ile		
	395		400		405
Leu Asn Pro His Val	His Leu Val Gly	Asp Asp Ala Ala Cys	Ile		
	410		415		420
Ala Tyr Ile Arg Leu	Thr Gln Tyr Met	Asp Gly Ser Gly Met	Pro		
	425		430		435
Lys Thr Met Gln Ser	Glu Glu Thr Arg	Val Trp His Arg Arg	Asp		
	440		445		450
Gly Lys Trp Gln Asn	Val His Phe His	Arg Ser Gly Ser Pro	Thr		
	455		460		465
Val Pro Ile Lys Pro	Pro Cys Ile Pro	Asn Gly Lys Glu Asn	Phe		
	470		475		480
Ser Gly Gly Thr Ser	Leu Trp Gln Asn	Ile			
	485		490		

<210> 35

<211> 344

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526212CD1

<400> 35

Met Ala Ser Thr Thr	Thr Cys Thr Arg Phe	Thr Asp Glu Tyr Gln
1	5	10
Leu Phe Glu Glu Leu	Gly Lys Gly Ala Phe	Ser Val Val Arg Arg
	20	25
Cys Met Lys Ile Pro	Thr Gly Gln Glu Tyr	Ala Ala Lys Ile Ile
	35	40
Asn Thr Lys Lys Leu	Ser Ala Arg Val Arg	Leu His Asp Ser Ile
	50	55
Ser Glu Glu Gly Phe	His Tyr Leu Val Val	Asp Leu Val Thr Gly
	65	70
		75

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Gly Glu Leu Phe Glu Asp Ile Val Ala Arg Glu Tyr Tyr Ser Glu
      80      85      90
Ala Asp Ala Ser His Cys Ile Gln Gln Ile Leu Glu Ala Val Leu
      95     100
His Cys His Gln Met Gly Val Val His Arg Asp Leu Lys Pro Glu
      110     115     120
Asn Leu Leu Leu Ala Ser Lys Ser Lys Gly Ala Ala Val Lys Leu
      125     130     135
Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Asp Gln Gln Ala
      140     145     150
Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu Val
      155     160     165
Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Met Trp Ala Cys
      170     175     180
Gly Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp
      185     190     195
Asp Glu Asp Gln His Arg Leu Tyr Gln Gln Ile Lys Ala Gly Ala
      200     205     210
Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr Val Thr Pro Glu Ala
      215     220     225
Lys Asp Leu Ile Asn Lys Met Leu Thr Ile Asn Pro Ala Lys Arg
      230     235     240
Ile Thr Ala Ser Glu Ala Leu Lys His Pro Trp Ile Cys Gln Arg
      245     250     255
Ser Thr Val Ala Ser Met Met His Arg Gln Glu Thr Val Asp Cys
      260     265     270
Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu Lys Gly Ala Ile Leu
      275     280     285
Thr Thr Met Leu Ala Thr Arg Asn Phe Ser Ala Ala Lys Ser Leu
      290     295     300
Leu Lys Lys Pro Asp Gly Val Lys Glu Ser Thr Glu Ser Ser Asn
      305     310     315
Thr Thr Ile Glu Asp Glu Asp Val Lys Gly Thr Val Ala His Ala
      320     325     330
Cys Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Gln Ile Thr
      335     340

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<210> 36
 <211> 89
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526213CD1

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<400> 36
Met Lys Lys Phe Ser Arg Met Pro Lys Ser Glu Gly Gly Ser Gly
  1      5      10      15
Gly Gly Ala Ala Gly Gly Gly Ala Gly Ala Gly Ala Gly Ala
  20      25      30
Gly Cys Gly Ser Gly Gly Ser Ser Val Gly Val Arg Val Phe Ala
  35      40      45
Val Gly Arg His Gln Val Thr Leu Glu Glu Ser Leu Ala Glu Val
  50      55      60
Ile Gln Met Leu Pro Val Gln Glu Pro Arg Leu Glu Tyr Arg Val
  65      70      75
Pro Leu Ile Ser Ser Gly Arg Arg Arg Leu Arg Arg Arg Cys
  80      85

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<210> 37
 <211> 88
 <212> PRT
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526214CD1

<400> 37

Met	Lys	Lys	Phe	Ser	Arg	Met	Pro	Lys	Ser	Glu	Gly	Gly	Ser	Gly	
1				5					10					15	
Gly	Gly	Ala	Ala	Gly	Gly	Gly	Ala	Gly	Gly	Ala	Gly	Ala	Gly	Ala	
				20					25					30	
Gly	Cys	Gly	Ser	Gly	Gly	Ser	Ser	Val	Gly	Val	Arg	Val	Phe	Ala	
				35					40					45	
Val	Gly	Arg	His	Gln	Val	Thr	Leu	Glu	Glu	Ser	Leu	Ala	Glu	Gly	
				50					55					60	
Thr	Gly	Ala	Arg	Gly	Gly	Ser	Asp	Arg	Gln	Val	Asp	Ser	Pro	Gln	
				65					70					75	
Phe	Ser	Ser	Cys	Val	Leu	Thr	Val	Glu	Ser	Asp	Val	His			
				80					85						

<210> 38

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526228CD1

<400> 38

Met	Ser	Thr	Ala	Ser	Ala	Ala	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ala	
1				5					10					15	
Gly	Glu	Met	Ile	Glu	Ala	Pro	Ser	Gln	Val	Leu	Asn	Phe	Glu	Glu	
				20					25					30	
Ile	Asp	Tyr	Lys	Glu	Ile	Glu	Val	Glu	Glu	Val	Val	Gly	Arg	Gly	
				35					40					45	
Ala	Phe	Gly	Val	Val	Cys	Lys	Ala	Lys	Trp	Arg	Ala	Lys	Asp	Val	
				50					55					60	
Ala	Ile	Lys	Gln	Ile	Glu	Ser	Glu	Ser	Glu	Arg	Lys	Ala	Phe	Ile	
				65					70					75	
Val	Glu	Leu	Arg	Gln	Leu	Ser	Arg	Val	Asn	His	Pro	Asn	Ile	Val	
				80					85					90	
Lys	Leu	Tyr	Gly	Ala	Cys	Leu	Asn	Pro	Val	Cys	Leu	Val	Met	Glu	
				95					100					105	
Tyr	Ala	Glu	Gly	Gly	Ser	Leu	Tyr	Asn	Val	Cys	Ala	Phe	Leu	Ser	
				110					115					120	
Gln	Cys	Cys	Met	Val	Leu	Asn	His	Cys	His	Ile	Ile	Leu	Leu	Pro	
				125					130					135	
Thr	Gln														

<210> 39

<211> 243

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526246CD1

<400> 39

Met	Ala	Asp	Leu	Glu	Ala	Val	Leu	Ala	Asp	Val	Ser	Tyr	Leu	Met	
1				5					10					15	
Ala	Met	Glu	Lys	Ser	Lys	Ala	Thr	Pro	Ala	Ala	Arg	Ala	Ser	Lys	
				20					25					30	
Lys	Ile	Leu	Leu	Pro	Glu	Pro	Ser	Ile	Arg	Ser	Val	Met	Gln	Lys	

	35		40		45									
Tyr	Leu	Glu	Asp	Arg	Gly	Glu	Val	Thr	Phe	Glu	Lys	Ile	Phe	Ser
	50		55		60									
Gln	Lys	Leu	Gly	Tyr	Leu	Leu	Phe	Arg	Asp	Phe	Cys	Leu	Asn	His
	65		70		75									
Leu	Glu	Glu	Ala	Arg	Pro	Leu	Val	Glu	Phe	Tyr	Glu	Glu	Ile	Lys
	80		85		90									
Lys	Tyr	Glu	Lys	Leu	Glu	Thr	Glu	Glu	Glu	Arg	Val	Ala	Arg	Ser
	95		100		105									
Arg	Glu	Ile	Phe	Asp	Ser	Tyr	Ile	Met	Lys	Glu	Leu	Leu	Ala	Cys
	110		115		120									
Ser	His	Pro	Phe	Ser	Lys	Ser	Ala	Thr	Glu	His	Val	Gln	Gly	His
	125		130		135									
Leu	Gly	Lys	Lys	Gln	Val	Pro	Pro	Asp	Leu	Phe	Gln	Pro	Tyr	Ile
	140		145		150									
Glu	Glu	Ile	Cys	Gln	Asn	Leu	Arg	Gly	Asp	Val	Phe	Gln	Lys	Phe
	155		160		165									
Ile	Glu	Ser	Asp	Lys	Phe	Thr	Arg	Phe	Cys	Gln	Trp	Lys	Asn	Val
	170		175		180									
Glu	Leu	Asn	Ile	His	Val	Ser	Gly	Leu	Gly	Trp	Gly	Met	Glu	Ser
	185		190		195									
His	Ala	Pro	Cys	Cys	Ser	Ser	Pro	Gly	Ser	Trp	Ala	Cys	Gly	Leu
	200		205		210									
Ala	Gly	Arg	Gly	Arg	Ser	Gly	Asp	Val	Cys	Pro	Leu	Ala	Pro	Arg
	215		220		225									
Ala	Val	Ala	Met	Gly	Val	Arg	Ala	Gly	Ile	Pro	Ala	Trp	Gly	Gly
	230		235		240									
Arg	Ser	Arg												

<210> 40

<211> 463

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526258CD1

<400> 40

Met	Arg	Arg	Pro	Arg	Gly	Glu	Pro	Gly	Pro	Arg	Ala	Pro	Arg	Pro
1				5					10					15
Thr	Glu	Gly	Ala	Thr	Cys	Ala	Gly	Pro	Gly	Glu	Ser	Trp	Ser	Pro
				20					25					30
Ser	Pro	Asn	Ser	Met	Leu	Arg	Val	Leu	Leu	Ser	Ala	Gln	Thr	Ser
				35					40					45
Pro	Ala	Arg	Leu	Ser	Gly	Leu	Leu	Leu	Ile	Pro	Pro	Val	Gln	Pro
				50					55					60
Cys	Cys	Leu	Gly	Pro	Ser	Lys	Trp	Gly	Asp	Arg	Pro	Val	Gly	Gly
				65					70					75
Gly	Pro	Ser	Ala	Gly	Pro	Val	Gln	Gly	Leu	Gln	Arg	Leu	Leu	Glu
				80					85					90
Gln	Ala	Lys	Ser	Pro	Gly	Glu	Leu	Leu	Arg	Trp	Leu	Gly	Gln	Asn
				95					100					105
Pro	Ser	Lys	Val	Arg	Ala	His	His	Tyr	Ser	Val	Ala	Leu	Arg	Arg
				110					115					120
Leu	Gly	Gln	Leu	Leu	Gly	Ser	Arg	Pro	Arg	Pro	Pro	Pro	Val	Glu
				125					130					135
Gln	Val	Thr	Leu	Gln	Asp	Leu	Ser	Gln	Leu	Ile	Ile	Arg	Asn	Cys
				140					145					150
Pro	Ser	Phe	Asp	Ile	His	Thr	Ile	His	Val	Cys	Leu	His	Leu	Ala
				155					160					165
Val	Leu	Leu	Gly	Phe	Pro	Ser	Asp	Gly	Pro	Leu	Val	Cys	Ala	Leu
				170					175					180

Glu	Gln	Glu	Arg	Arg	Leu	Arg	Leu	Pro	Pro	Lys	Pro	Pro	Pro	Pro	
				185					190					195	
Leu	Gln	Pro	Leu	Leu	Arg	Glu	Ala	Arg	Pro	Glu	Glu	Leu	Thr	Pro	
				200					205					210	
His	Val	Met	Val	Leu	Leu	Ala	Gln	His	Leu	Ala	Arg	His	Arg	Leu	
				215					220					225	
Arg	Glu	Pro	Gln	Leu	Leu	Glu	Ala	Ile	Thr	His	Phe	Leu	Val	Val	
				230					235					240	
Gln	Glu	Thr	Gln	Leu	Ser	Ser	Lys	Val	Val	Gln	Lys	Leu	Val	Leu	
				245					250					255	
Pro	Phe	Gly	Arg	Leu	Asn	Tyr	Leu	Pro	Leu	Glu	Gln	Gln	Phe	Met	
				260					265					270	
Pro	Cys	Leu	Glu	Arg	Ile	Leu	Ala	Arg	Glu	Ala	Gly	Val	Ala	Pro	
				275					280					285	
Leu	Ala	Thr	Val	Asn	Ile	Leu	Met	Ser	Leu	Cys	Gln	Leu	Arg	Cys	
				290					295					300	
Leu	Pro	Phe	Arg	Ala	Leu	His	Phe	Val	Phe	Ser	Pro	Gly	Phe	Ile	
				305					310					315	
Asn	Tyr	Ile	Ser	Gly	Thr	Pro	His	Ala	Leu	Ile	Val	Arg	Arg	Tyr	
				320					325					330	
Leu	Ser	Leu	Leu	Asp	Thr	Ala	Val	Glu	Leu	Glu	Leu	Pro	Gly	Tyr	
				335					340					345	
Arg	Gly	Pro	Arg	Leu	Pro	Arg	Arg	Gln	Gln	Val	Pro	Ile	Phe	Pro	
				350					355					360	
Gln	Pro	Leu	Ile	Thr	Asp	Arg	Ala	Arg	Cys	Lys	Tyr	Ser	His	Lys	
				365					370					375	
Asp	Ile	Val	Ala	Glu	Gly	Leu	Arg	Gln	Leu	Leu	Gly	Glu	Glu	Lys	
				380					385					390	
Tyr	Arg	Gln	Asp	Leu	Thr	Val	Pro	Pro	Gly	Tyr	Cys	Thr	Gly	Glu	
				395					400					405	
Gln	Gly	Ala	Gly	Gly	Arg	Pro	Gly	Glu	Thr	Glu	Pro	Trp	Leu	Arg	
				410					415					420	
Pro	Pro	Ala	Leu	Leu	Pro	Ser	Arg	Leu	Pro	Ala	Val	Arg	Gln	Gln	
				425					430					435	
Leu	Trp	Cys	Cys	Ala	Ser	Arg	Glu	Asp	Pro	Gly	Pro	Leu	Pro	Ala	
				440					445					450	
Ile	Pro	Thr	Lys	Val	Leu	Pro	Thr	Gly	Pro	Gly	Cys	Leu			
				455					460						

<210> 41
 <211> 184
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526311CD1

<400> 41
 Met Arg Leu Ala Arg Leu Leu Arg Gly Ala Ala Leu Ala Gly Pro
 1 5 10 15
 Gly Pro Gly Leu Arg Ala Ala Gly Phe Ser Arg Ser Phe Ser Ser
 20 25 30
 Asp Ser Gly Ser Ser Pro Ala Ser Glu Arg Gly Val Pro Gly Gln
 35 40 45
 Val Asp Phe Tyr Ala Arg Phe Ser Pro Ser Pro Leu Ser Met Lys
 50 55 60
 Gln Phe Leu Asp Phe Gly Ser Val Asn Ala Cys Glu Lys Thr Ser
 65 70 75
 Phe Met Phe Leu Arg Gln Glu Leu Pro Val Arg Leu Ala Asn Ile
 80 85 90
 Met Lys Glu Ile Ser Leu Leu Pro Asp Asn Leu Leu Arg Thr Pro
 95 100 105
 Ser Val Gln Leu Val Gln Ser Trp Tyr Ile Gln Ser Leu Gln Glu

	110		115		120
Leu	Leu	Asp	Phe	Lys	Asp
	125		130		135
Tyr	Glu	Arg	Pro	Arg	Thr
	140		145		150
Cys	Met	Ala	Cys	Lys	Met
	155		160		165
Arg	Lys	Ser	Ile	Ser	Ser
	170		175		180
Leu	Gln	Cys	Thr		

<210> 42
 <211> 386
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526315CD1

<400> 42

Met	Ser	Ser	Leu	Gly	Ala	Ser	Phe	Val	Gln	Ile	Lys	Phe	Asp	Asp
1				5					10					15
Leu	Gln	Phe	Phe	Glu	Asn	Cys	Gly	Gly	Gly	Ser	Phe	Gly	Ser	Val
				20					25					30
Tyr	Arg	Ala	Lys	Trp	Ile	Ser	Gln	Asp	Lys	Glu	Val	Ala	Val	Lys
				35					40					45
Lys	Leu	Leu	Lys	Ile	Glu	Lys	Glu	Ala	Glu	Ile	Leu	Ser	Val	Leu
				50					55					60
Ser	His	Arg	Asn	Ile	Ile	Gln	Phe	Tyr	Gly	Val	Ile	Leu	Glu	Pro
				65					70					75
Pro	Asn	Tyr	Gly	Ile	Val	Thr	Glu	Tyr	Ala	Ser	Leu	Gly	Ser	Leu
				80					85					90
Tyr	Asp	Tyr	Ile	Asn	Ser	Asn	Arg	Ser	Glu	Glu	Met	Asp	Met	Asp
				95					100					105
His	Ile	Met	Thr	Trp	Ala	Thr	Asp	Val	Ala	Lys	Gly	Met	His	Tyr
				110					115					120
Leu	His	Met	Glu	Ala	Pro	Val	Lys	Val	Ile	His	Arg	Asp	Leu	Lys
				125					130					135
Ser	Arg	Asn	Val	Val	Ile	Ala	Ala	Asp	Gly	Val	Leu	Lys	Ile	Cys
				140					145					150
Asp	Phe	Gly	Ala	Ser	Arg	Leu	His	Asn	His	Thr	Thr	His	Met	Ser
				155					160					165
Leu	Val	Gly	Thr	Phe	Pro	Trp	Met	Ala	Pro	Glu	Val	Ile	Gln	Ser
				170					175					180
Leu	Pro	Val	Ser	Glu	Thr	Cys	Asp	Thr	Tyr	Ser	Tyr	Gly	Val	Val
				185					190					195
Leu	Trp	Glu	Met	Leu	Thr	Arg	Glu	Val	Pro	Phe	Lys	Gly	Leu	Glu
				200					205					210
Gly	Leu	Gln	Val	Ala	Trp	Leu	Val	Val	Glu	Lys	Asn	Glu	Arg	Leu
				215					220					225
Lys	Lys	Leu	Glu	Arg	Asp	Leu	Ser	Phe	Lys	Glu	Gln	Glu	Leu	Lys
				230					235					240
Glu	Arg	Glu	Arg	Arg	Leu	Lys	Met	Trp	Glu	Gln	Lys	Leu	Thr	Glu
				245					250					255
Gln	Ser	Asn	Thr	Pro	Leu	Leu	Leu	Pro	Leu	Val	Ala	Arg	Met	Ser
				260					265					270
Glu	Glu	Ser	Tyr	Phe	Glu	Ser	Lys	Thr	Glu	Glu	Ser	Asn	Ser	Ala
				275					280					285
Glu	Met	Ser	Cys	Gln	Ile	Thr	Ala	Thr	Ser	Asn	Gly	Glu	Gly	His
				290					295					300
Gly	Met	Asn	Pro	Ser	Leu	Gln	Ala	Met	Met	Leu	Met	Gly	Phe	Gly
				305					310					315

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Asp Ile Phe Ser Met Asn Lys Ala Gly Ala Val Met His Ser Gly
          320          325          330
Met Gln Ile Asn Met Gln Ala Lys Gln Asn Ser Ser Lys Thr Thr
          335          340          345
Ser Lys Arg Arg Gly Lys Lys Val Asn Met Ala Leu Gly Phe Ser
          350          355          360
Asp Phe Asp Leu Ser Glu Gly Asp Asp Asp Asp Asp Asp Gly
          365          370          375
Glu Glu Glu Asp Asn Asp Met Asp Asn Ser Glu
          380          385

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<210> 43
 <211> 152
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526442CD1

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<400> 43
Met Asp Gln Tyr Cys Ile Leu Gly Arg Ile Gly Glu Gly Ala His
  1          5          10          15
Gly Ile Val Phe Lys Ala Lys His Val Glu Thr Gly Glu Ile Val
          20          25          30
Ala Leu Lys Lys Val Ala Leu Arg Arg Leu Glu Asp Gly Phe Pro
          35          40          45
Asn Gln Ala Leu Arg Glu Ile Lys Ala Leu Gln Glu Met Glu Asp
          50          55          60
Asn Gln Tyr Val Val Gln Leu Lys Ala Val Phe Pro His Gly Gly
          65          70          75
Gly Phe Val Leu Ala Phe Glu Phe Met Leu Ser Asp Leu Ala Glu
          80          85          90
Val Val Arg His Ala Gln Arg Pro Leu Ala Gln Ala Gln Val Lys
          95          100          105
Ser Tyr Leu Gln Met Leu Leu Lys Gly Val Ala Phe Cys His Ala
          110          115          120
Asn Asn Ile Val His Arg Asp Leu Pro Pro Arg Pro Ile Gln Gly
          125          130          135
Pro Pro Thr Ser Met Thr Ser Thr Trp Thr Gly Leu Leu Arg Ser
          140          145          150
Arg Cys

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<210> 44
 <211> 1916
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7517831CB1

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<400> 44
gttaggccag gaggaccatg tgaatggggc cagagggctc ccgggctggg caggaccatg 60
ggctgtggct gcagctcaca cccggaagat gactggatgg aaaacatcga tgtgtgtgag 120
aactgccatt atcccatagt cccactggat ggcaaggcca cgctgctcat ccgaaatggc 180
tctgagacaa cctgggtatc gctctgcaca gctatgagcc ctctcacgac ggagatctgg 240
gctttgagaa gggggaacag ctccgcatcc tggagcagag cggcgagtgg tgggaaggcgc 300
agtccttgac caggggccag gaaggcttca tccccttcaa ttttgtggcc aaagcgaaca 360
gctgggagcc cgaaccctgg ttcttcaaga acctgagccg caaggacgcg gagcggcagc 420
tcctggcgcc cgggaacact cacggctcct tcctcatccg ggagagcgag agcaccgcgg 480
gatcggtttc actgtcggtc cgggacttcg accagaacca gggagaggtg gtgaaacatt 540
acaagatccg taatctggac aacggtggct tctacatctc ccctcgaatc acttttcccc 600

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gcctgcatga actggtccgc cattacacca atgottcaga tgggctgtgc acacgggtga 660
gccgccccctg ccagacccag aagccccaga agccgtggtg ggaggacgag tgggaggttc 720
ccagggagac gctgaagctg gtggagcggc tgggggctgg acagttcggg gaggtgtgga 780
tgggggtacta caacgggcac acgaaggtg cggtgaagag cctgaagcag ggcagcatgt 840
ccccggacgc ctctctggcc gagggcaacc tcatgaagca gctgcaacac cagcggtggtg 900
ttcggctcta cgctgtggtc acccaggagc ccatctacat catcactgaa tacatggaga 960
atgggagtct agtggatttt ctcaagaccc cttcaggcat caagttgacc atcaacaaac 1020
tcctggacat ggcagcccaa ttgcagaagg catggcattc attgaagagc ggaattatat 1080
tcatcgtgac ctctgggctg ccaacattct ggtgtctgac accctgagct gcaagattgc 1140
agacttgggt ctagcacgoc tcattgagga caacgagtac acagccaggg agggggccaa 1200
gtttccatt aagtggacag cgccagaagc cattaactac gggacattca ccatcaagtc 1260
agatgtgtgg tcttttggga tcctgctgac ggaaattgtc acccacggcc gcatccctta 1320
cccagggatg accaaccggg aggtgattca gaacctggag cgaggctacc gcatggtgag 1380
ccctgacaac tgtccagagg agctgtacca actcatgagg ctgtgctgga aggagcgccc 1440
agaggaccgg cccacctttg actacctgag cagtgtgctg gaggacttct tcacggccac 1500
agagggccag taccagcctc agccttgaga ggccttgaga ggcctgggg ttctccccct 1560
ttctctccag cctgacttgg ggagatggag ttcttgtgcc atagtacat ggcctatgca 1620
catatggact ctgcacatga atccccacca catgtgacac atatgcacct tgtgtctgta 1680
cacgtgtcct gtagttgcgt ggactctgca catgtcttgt acatgtgtag cctgtgcatg 1740
tatgtcttgg acactgtaca aggtaccctt ttcttgctct cccatttctt gagaccacag 1800
agagagggga gaagcctggg attgacagaa gcttctgccc acctactttt ctttctctag 1860
atcatccaga agttcctcaa gggccaggac tttatctaata acctctgtgt gctcct 1916

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<210> 45

<211> 926

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7520272CB1

<400> 45

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<210> 46

<211> 1382

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7521279CB1

<400> 46

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<210> 47

<211> 1678

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7523965CB1

<400> 47

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tcccactggc attcgagatt ttgtagagca cagtggccgc ctgtgccaac cagagggcat 180
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cagagcaggt caaccaggat ctgccc aaag aggtgttggc tgagcttgag gccctggaga 1620
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<210> 48

<211> 895

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7524016CB1

<400> 48

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cagctcgagg caagacctat atctccacaa agctcacacg atatctcaac tggataggaa 180
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tcaggcaagt gaaacttggc agccctgatt atatagactg tgaccgggaa aagggttctgg 540
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<210> 49

<211> 1294

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 7524680CB1

<400> 49

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<210> 50

<211> 1354

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7524757CB1

<400> 50


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ccagctcgag gcaagaccta tatctccaca aagctcacac gatattctcaa ctggatagga 180
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1354

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<210> 51

<211> 1204

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7516229CB1

<400> 51

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gcgg
1204

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<210> 52

<211> 1859

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7516525CB1

<400> 52

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<210> 53

<211> 1695

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 7516533CB1

<400> 53

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<210> 54

<211> 3891

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7516613CB1

<400> 54

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<223> Incyte ID No: 7517148CB1

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